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No. 2278.

SEPTEMBER 22, 1923.

Vol. XCIX.



The 'Allenburys' Calendar

FOR

1924

Overprinted with
Chemist's own Name
and Address

The picture for this year's Calendar, 'Mary, Mary, quite contrary,' is the first of a series on the subjects of well-known Nursery Rhymes and Legends and is sure to be popular. The reproduction of the picture in colours has been most successfully carried out. Mounted on double art boards and beautifully finished, it will undoubtedly prove very attractive. The charge of 2/6 per dozen, carriage paid, is considerably less than the cost of production. The minimum quantity that can be overprinted with own name and address is three dozen. We can supply envelopes to fit the calendars at 8d. per dozen.

Size of Picture - - 8½ ins. × 6½ ins.
Size of complete Calendar 15 ins. × 11 ins.

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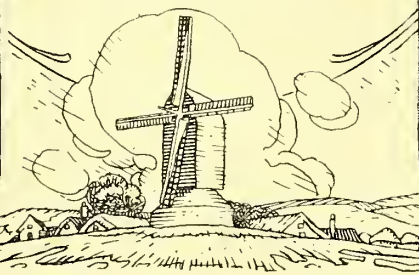
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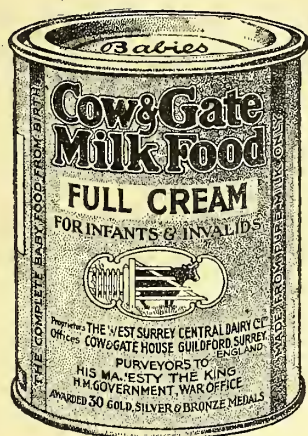
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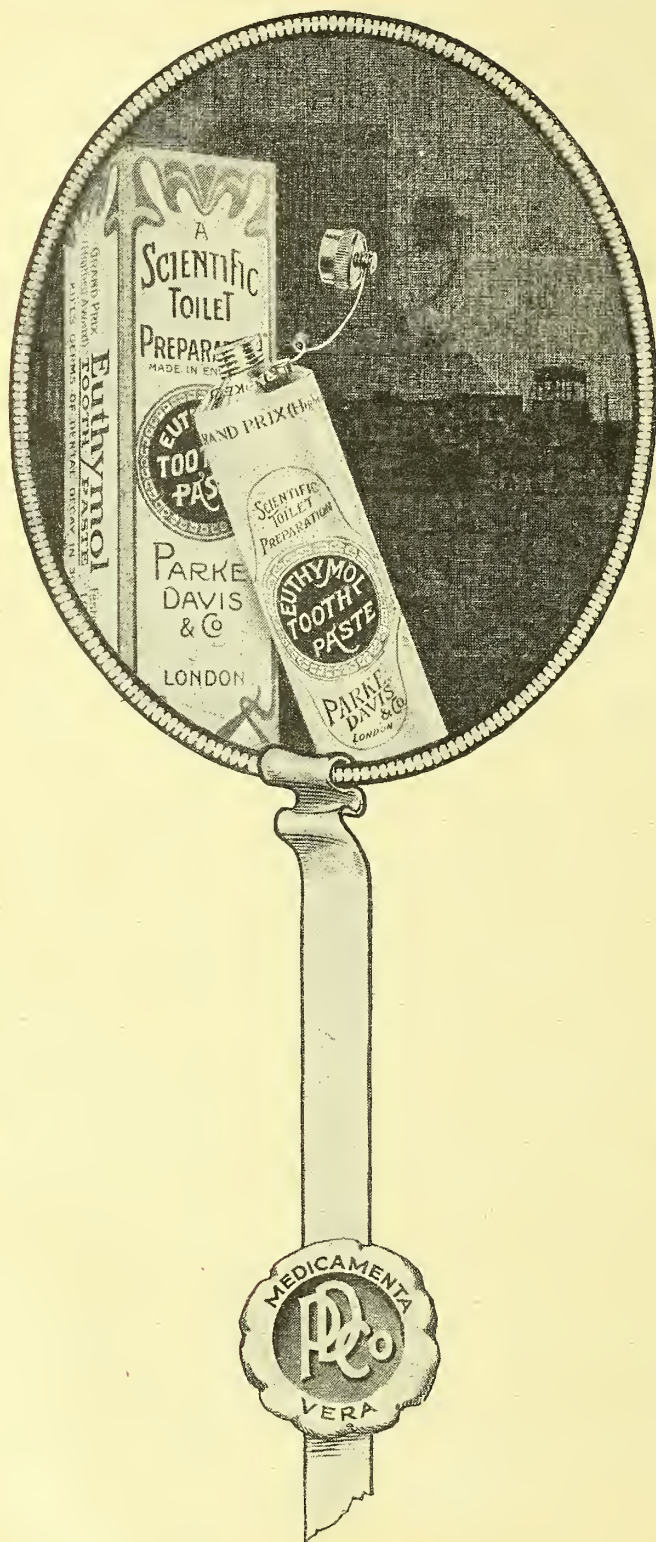
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It pays!

Parke, Davis & Co.
 50-54 Beak Street, London, W.1.

Maw's Page

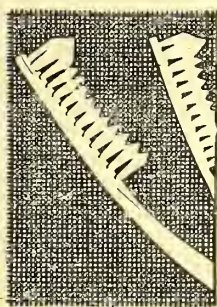


"Meritor"

The name that means money to you. The name that is sending customers to your counter every day—the name that is practically your own copyright. No doubt you have seen the first-rate "Meritor" advertisements illustrated with this design are appearing in the leading daily papers.

These advertisements are telling thousands of people about the excellent qualities of "Meritor" Brushware generally and "Meritor" tooth brushes in particular. They also state that a "Meritor" brush can only be obtained from pharmacists.

A display of "Meritor" tooth brushes in your window will reap a good reward for you. The well-designed display matter which is always associated with "Meritor" brushware will help you to make your window doubly attractive, and the guarantee that is given with every brush will ensure certain satisfaction to your customers.



When you are selling a tooth brush, sell a "Meritor," it is well worth your while to do so.



S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.



Telephone: City 7
Private Branch Exchange
Telegrams: Eleven Cent London

Cables: Eleven London
Code: A.B.C. 4th & 5th Edition

Sensational Cork Offer!

CORKS equal to the qualities shown below cannot be obtained for less money—anywhere; nor yet for more!

Send cash-with-order, and remember that every parcel comes under our "Pyramid" guarantee—money back if not more than satisfied.

State-Number of Parcel and Quality.

Parcel No.	Gross.	Contents.	Size.	Superfine Quality.	1st Quality.	2nd Quality.	N.I. Quality.
624	24	10/12 oz.	...	50/0	25 0	21/0	19/6
612	12	do.	...	26/0	14/0	11/6	—
448	48	6/8 oz.	...	77/0	44/0	35/0	33/6
424	24	6/8 oz.	...	40/0	23/6	19/0	17/6
412	12	do.	...	22/0	13/0	10/6	—
248	48	3/4 oz.	...	55/0	35/0	28/0	26/0
224	24	3/4 oz.	...	29/0	18/6	15/0	14/0
212	12	do.	...	16/6	10/6	8/6	—
124	24	1 dr./2 oz.	...	26/0	16/6	13/6	—
112	12	do.	...	14/6	9/3	7/9	—

Assorted Parcels (sizes packed separately if so ordered).

4126	{ 4 12 6	{ 10/12 oz. 6/8 oz. 3/4 oz.	{ ...	38/4	...	21/0	...	17/0	...	16/0
1580	{ 15 8	{ 6/8 oz. 3/4 oz.	{ ...	38/4	...	21/0	...	17/0	...	16/0
1284	{ 12 8 4	{ 6/8 oz. 3/4 oz. 1 dr./2 oz.	{ ...	38/4	...	21/0	...	17/0	...	16/0

Two or more parcels to one address—less 3d. per parcel.

CARRIAGE PAID.

CASH WITH ORDER.

Wholesale Department.

Extremely keen prices given to wholesalers and manufacturers for corks in original bales. Quality guaranteed.

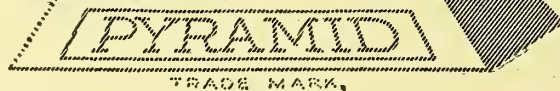
Manufacturing Department.

We save packers money on Special Sizes. Dome-Topped or Cottage-Topped Corks (for perfumery, etc.), Compo Wads (for Tablets, Creams, etc.)

N. W. Mitchell & Sons, Ltd.,

"The Cork Firm."

Bouchon Works, London, E. 14.



TRADE MARK.

Bismuth

A Standard Product
in
a Standard Package



THE Bismuth Carbonate, which we make at our Chemical Factory, is distinguished for lightness and whiteness without excessive "fluffiness." The attention of pharmacists is drawn to the readiness with which it diffuses in a fluid mixture.

We now offer it in a new Standard Package which we believe will be found a convenience for storage purposes.

EVANS SONS LESCHER & WEBB, LIMITED

LIVERPOOL

New York

LONDON



Produced and packed
in Devon (England),
by MILKAL, Ltd.,
London & Devonshire.

The Milk
Clean

MILKAL
THE CLEAN MILK

FULL CREAM NURSERY MILK Straight from Devon in a tin

Full Cream Milk from Devonshire pastures—minus the water content. This fully describes Milkal—dried Milk in a tin. Mixed with cold or tepid water, it is clean liquid milk again, tasting exactly the same as the liquid milk that it was in the first place. Milkal brings the Dairy into every home, providing nourishing milk suitable for Infant Feeding from birth and for every household purpose.

A Most Profitable Line for you to Handle.

Dried milk meets an urgent need in every household. Milkal is the most economical and convenient method of providing clean milk at any hour of the day or night. You sell Milkal by the pound or half-pound tin, and your liberal margin of profit is indicated as follows:—

		Wholesale.		Retail.
1-lb. size	~	2/9½	~	3/6
½-lb. size	~	1/5	~	1/9½

Stock taken back and Cash refunded at any time.

Distributed and Recommended by
J. LYONS & CO., LTD.,
21, Cadby Hall, LONDON, W.

P-K-L

**PAIN KILLING
LINIMENT**



EVERY bottle of this Liniment which crosses your counter gives you a profit of 62% on cost. Every bottle brings back the same customer, and he or she sends at least one other—such is the power of satisfaction.

You are entitled to return the purchase money in full if the Liniment doesn't do what is claimed for it.

12/- per doz.

P.A.T.A. 1/6

A bonus quantity of $\frac{1}{2}$ doz. added to every 6 dozen order and pro rata. Splendid display matter sent with each delivery.

AYRTON, SAUNDERS & Co., Ltd.

Manufacturing Chemists

LIVERPOOL

Phone : Royal 4861

Telegrams :
"Sundries, Liverpool."

▲
WE
MAKE
ESSENCES
FOR
AERATED & STILL
BEVERAGES
TO SUIT
ALL TASTES

ESSENCES

FREE SAMPLES
FREE ADVICE
RECIPES, etc.

HEAD OFFICE:
&
LABORATORIES,
HULL.

WM. HAY, LTD.
ESSENCE DISTILLERS.

LONDON DEPOT:
3, BROWNING ST.,
WALWORTH RD.,
S.E.17.

Telegrams: "Ginger Hull": "Bushworth London."

Codes A.B.C. 5th & 6th Edn., & Bentley's.



A Question of Price.

“SOUCHETS” are the best Licorice and Menthol “cushions” obtainable. “Lozettes” are the best possible value at the popular 4½d. price. The individual Pharmacist alone can decide whether to stock “Souchets” or “Lozettes” or both.

The slightly higher cost of “Souchets” is due to a number of small refinements, which in the aggregate spell perfection; “Souchets” carry a greater percentage of menthol in the finest possible licorice base; “Souchets” are slightly less in size, which increases the cost of manufacture; the “Souchet” tins, of convenient vest-pocket thinness, contain rather more metal and require an extra printing; the “bridge” type of outer is more expensive than the plain “Lozette” outer; the trade profit on “Souchets” is 37½% against 33½% in the case of “Lozettes.” These are some of the little differences which distinguish between “good” and “best.”

“SOUCHET” PRICES Bulk 4/6 lb. 6d. tins 3/9 doz. Gross lots 3/7½ doz.

“LOZETTE” PRICES Bulk 3/6 lb. 4½d. tins 3/- doz. Gross lots 2/11 doz.



THOMAS KERFOOT & CO. LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N1
ESTABLISHED 1797.

COPYRIGHT

Season—1923



COD LIVER OIL

GUARANTEED GENUINE.

Manufacturers :

BRÖDR. AARSÆTHER A/S, Aalesund, Norway.

LARGEST MANUFACTURERS OF COD LIVER OIL IN NORWAY.

Wholesale only. In 25-gallon tin-lined barrels.

SOLE AGENTS
FOR U.K. :**FREUDENTHEIL, SMITH & CO.**

21 Mincing Lane, LONDON, E.C. 3.

Tel. Add. : "FREUDENRUF."

Codes used : A B C, 4th & 5th Edit. ; and Private.

Tel. : 12513 CENTRAL

QUALITY MAKERS of**Malt Ext.** and

All packings.

Malt & Oil**C. Tolkien & Co.**Factory & Maltings — Apollo Works,
Offices & Warehouse—Commercial Mills,**Blackburn.**

Established 1886.

BELFAST—31 Antrim Road.

Astonishing Offer of PURE EXTRACT OF MALT & COD LIVER OIL 15% B.P.C.

in cwt. lots or

1 lb. size Jars 9/6 per doz. Carriage paid.

2 lb. " 16/10 " "

4 lb. " 32/- " "

For wholesale quantities or large buyers.

Special quotation for small buyers on application, stating quantity, and if for onward or immediate delivery or contracts to end of March 1924. Name and Address on 6 doz. assorted sizes on artistic Litho Labels.

Write at once to

PRIMO DRUG CO., LTD.,

Manufacturing Chemists (Specialists in Malt and Oil).

5 BURY NEW ROAD, MANCHESTER.

NURSE HARVEY'S MIXTURE

A safe, simple, and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessities from him. Moreover, the retailer has a profitable return on a quick turnover.

For Direct Terms apply to—

OSCAR SCRUTON & CO., YORK

ATKINSON & BARKER'S INFANTS' PRESERVATIVE

THE BEST AND SAFEST INFANTS'
MEDICINE OF OVER 120 YEARS' STANDING.Prices and Terms on application to **R. BARKER & SON, Ltd.**
13 Wesley St., G.-on-M., MANCHESTER.

**DOES
NOT
CONTAIN
any
SCHEDULED
POISON.**

THE
BRITISH DIAMALT CO.'S
Products are Reliable
MALT EXT. & C.L.O.

Prices and Samples on application.

BUY DIRECT FROM THE MAKERS—

THE BRITISH DIAMALT COMPANY
Maltsters and Malt Extract Makers.

9 HOLBORN VIADUCT, LONDON, E.C.1

Works & Laboratories: SAWBRIDGEWORTH, HERTS.
Liverpool Office: ARCADE BUILDINGS, 85 LORD STREET.



**BRAND'S
ESSENCE**

of Beef, Mutton or Chicken
consists solely of the juice of
the finest meats, prepared
with the greatest care under
the most hygienic conditions.

Essential in the Sick Room.

So'd by all Chemists and Stores.

BRAND & CO., LTD.
Mayfair Works, Vauxhall, LONDON, S.W.8.

VITAMOGEN

(VITAMINES)

INVALUABLE FOR
SLEEPLESSNESS
NERVOUS DISORDERS
CONVALESCENCE
AND
INFANTS.

Retail Price - - 2/- and 4/6.

To be obtained of All
Chemists, or direct from


VITAMOGEN, Ltd.
(DEPT. C)
24/26 Holborn, LONDON, E.C.1.

D^r HALE'S
VIN-SANGUIS
WINE FOR THE BLOOD

Fountain of Health

If you have a Wine License we will pay the fee.
If not, get one, we will pay.
Send for any

You agree to display "Vin Sanguis" always.
You give us an agreed initial order.
You always keep stock
further particulars



PROPRIETORS OF
DR. HALE'S VIN-SANGUIS
Transcontinental Agencies Ltd
14, Southampton St., London, W.C.2

MADE WITH OLD DOURO PORT



Saint-Raphael

**Tonic, Restorative,
Digestive Wine.**

**Known throughout the World,
and prescribed in all cases of
ANÆMIA, DEBILITY, and CON-
VALESCENCE, to Young Women,
Children and the Aged.**

DOSE : One wine-glass after the
two principal meals.

Recommended by—
PROF. BOUCHARDAT, Professor of
Hygiene, Paris Faculty of Medicine.
DR. MACNAUGHTON JONES, London,
England.

"For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magendie, Roson, Chomel, Velpeau, Requin, Monneret, Trousseau, Grisolle, Laennec, &c."—*Union Medicale*, May 8 and June 12, 1873.

"The 'Vin de St. Raphaël' is often used for ladies nursing their own children: it is preferable to stout, which creates an unhealthy fat."—*The Lancet*, London, England.

"St. Raphaël Wine is most precious in all cases where it is necessary to give tone to the system, without effort or shock."—DR. C. DES BARRES.

Cie du VIN SAINT RAPHAEL, Valence, Drome,
FRANCE

**To be obtained from all
Wholesale Druggists.**

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.

(Wholesale only)

Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3.

BOOKS FOR PHARMACISTS.

Send us a postal card and we will send you a 32 page catalogue of professional and business books for pharmacists, and a copy of

"THE SPATULA"

an illustrated monthly magazine for druggists, full of American snap and enterprise.

THE SPATULA, BOSTON 14, MASS, U.S.A.

REAL SILVER LEAF

As supplied for many years to the leading Houses for Pills, Cachous, &c.

We also supply

GOLD LEAF AND GOLD POWDERS

WHOLESALE ONLY

E. WINTER & CO., LTD.

Head Office: 64 Cheapside, London, E.C.2. Telephone: Central 1935

Reduction of Prices from Sept. 1st

Important Note to Chemists without Licenses

It has been established by law that Registered Chemists may sell Wincarnis with Quinine without a License.



**Sells readily ALL
the time.**

COLEMAN & CO., Ltd., Wincarnis Works, Norwich.

**New Prices to
the Public:**

Large Size **5/-**

Small Size **3/-**



There
is no better
Tonic
in cases of Anæmia,
Convalescence, Neurasthenia
than

Serravallo's Tonic

(Bark & Iron Wine)
Delightful taste.

Maintains a World-wide reputation
of over 30 years' standing.
Awarded 24 Medals.
Over 9000 Medical Testimonials.

Good Profits Assured.
Free supplies of handsome advertis-
ing matter and samples for
medical men.
Correspondence invited.

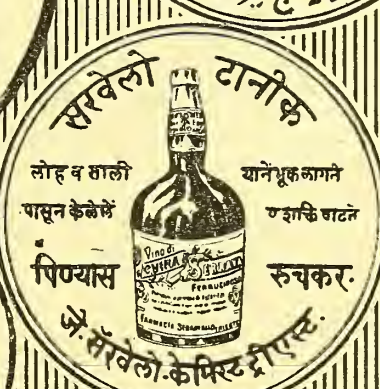
Agents :

LONDON: W. Suter & Co., 12 Edmund
Place, E.C. 1

NORTHUMBERLAND, DURHAM:
W. Glendenning & Sons, Ltd.
33 St. Mary's Place, Newcastle-on-Tyne.

IRELAND: Alfred Willington, 8/10 Princes
Chamber, Ann Street, Belfast.

J. Serravallo,
Manufacturing Chemist,
Trieste-Barcola,
Italy.



Telegrams:
"Serravallo Barcola"

ABC Codes
4th and 5th Editions

Glaxo—the money maker

Both marriage and birth rates are down for 1922 and 1923 as compared with 1920 and 1921. Fewer babies born and fewer going to be born, yet more and more infant foods are being placed on the market and still Glaxo hold its place as being the largest and quickest seller.

Why not concentrate your selling efforts on Glaxo, the money maker—you can make 39 per cent. on your cost or 20 and 10 per cent. off the advertised price. This is what you can make when you buy Glaxo in £12 lots and give ten days' window show.

Why not make up your mind to sell £12 worth of Glaxo per month? Sell it, not only for baby, but for the nursing and expectant mother, the growing child and the invalid who is ordered, but cannot digest, ordinary cow's milk.

Glaxo

The Money Maker
"Builds Bonnie Babies"

SPECIMEN PARCEL BOUGHT ON ADVERTISING DISPLAY TERMS

Parcel contains	Costs you	Yields	Total Profit
	£ s. d.	£ s. d.	£ s. d.
2 doz. 1/6 Glaxo	1 6 0	1 16 0	10 0
2 " 2/6 "	2 3 2	3 0 0	16 10
2 " 4/6 "	3 17 10	5 8 0	1 10 2
1 1/2 " 7/6 "	4 17 3	6 15 0	1 17 9
Total ...	£12 4 3	£16 19 0	£4 14 9

GLAXO (Sales Dept.), 56 Osnaburgh St., London, N.W.1

"BEST
for
MOTHER
and
BABY"



"DORSELLA"
MILK FOOD

Equals Grade "A" Milk

5 oz., 10 oz. and 16 oz. net. Decorated air-tight tins.

Retail Price ... 1/4, 2/- and 2/6.

2 oz. Samples free.

Liberal trade discount. Bulk in 56-lb. tins, 2 tins in crate, rail paid, at 112/- per cwt.

Manufactured by

PRIDEAUX'S FOOD ETC. COMPANY, LIMITED,

Pioneers of the Dried Milk Industry. Eight Creameries in Dorset, Somerset and Wilts.

London Office: 16 Southwark Street, S.E.1.

Send for Trade Terms and full particulars to:

PRIDEAUX'S FOOD etc. Co. Ltd.
MOTCOMBE, DORSET.

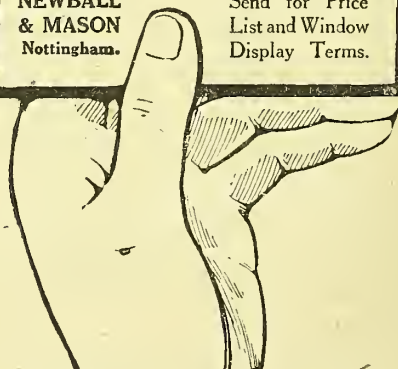
Now is the time
to order

**MASON'S
WINE ESSENCES**

AVOID IMITATIONS

NEWBALL
& MASON
Nottingham.

Send for Price
List and Window
Display Terms.



Just off the Press! - -

Fine NEW OWN-NAME MALT EXTRACT LABELS

GOOD LOOKS sell Malt Extract (as well as almost everything else), and with that in mind we have just had two extra specially handsome designs prepared exclusively for the chemist who wants something well away from the ordinary in own name labels.

Beautiful in their bright colouring, and perfect in lettering and design, these labels are certain to please you—you will want to get them in your window as soon as you see them.

SEND FOR SPECIMENS

and at the same time indicate your season's Malt and Oil requirements, when back by return will come the sample labels, along with a price which you will find it difficult indeed to beat. We are "out" for the biggest Malt Extract business this season, and already our sales show that our low prices and fine labels are getting us a high proportion of the business going.

**GOODALL, BACKHOUSE
& CO. LEEDS.**



In Commerce

much money is lost by trying to manufacture too many different things under one roof.

It is the specialised manufacturers who can sell their product.

We specialise in *long runs* labels and wrappers.

Write
Dept. C.

Send us your specification and let us quote.
We are sure we shall save you money.

The Berkshire Printing Co. Ltd.
King's Road, Reading.

The 'ESSENFLOUR PRODUCTS Ltd.'

*Distillers of Essential Oils and
Manufacturers of Perfumery Products*

MYSORE - - S. India

have been appointed as from the 1st Sept.,
1923, Sole Consignees and Distributors of

MYSORE GOVT. SANDALWOOD OIL

Satisfying all pharmacopœia and possessing an excellent aroma.

*Samples and prices will be readily supplied
on application to our correspondent at*

'PERFUME HOUSE,' 6-8 Beauchamp Street, London, E.C.1

Telephone : HOLBORN 2499.

Telegrams : "EKDUM LONDON."

It will pay you to write for Window Display Terms

ALZA VANISHING CREAM

THE MOST PROFITABLE AND
BEST VALUE IN THE TRADE

OBTAINABLE FROM WOOLLEYS' OR MAY, ROBERTS',
OR DIRECT FROM

ALZA Mfg. Co., Chorlton-cum-Hardy, MANCHESTER.



BRITISH OWNED

THE
BRITISH
BERKEFELD FILTER

SARDINIA HOUSE,
KINGSWAY,
LONDON.
W.C.2

Filter Cylinder.

H.H. BROWNLOW,
R.S. BROWNLOW.

An Unchallenged Market

NUCTONE stands alone in a market with no real competitor. Grey-haired men and women who would never bring themselves to use ordinary instantaneous hair dyes will welcome the gradual colour-restoring treatment made possible by NUCTONE; and thereby new sales possibilities are opened up.

NUCTONE can be recommended with absolute confidence in its safety and dependability, with the certainty that your customers will be satisfied with the results and will return to you again as soon as growth of new hair makes further application necessary.

The full co-operation of the manufacturers and the NUCTONE Guarantee is behind you. Also NUCTONE is well advertised in both Press and Magazines, and a moment's reflection will convince you of the steady business which you derive from this.

Showcards and explanatory booklets for free distribution are furnished on request.

GUARANTEE

The Manufacturers guarantee that NUCTONE is absolutely free from any combination of lead and sulphur, and contains no ingredients that can possibly injure the hair. NUCTONE can therefore be recommended with entire confidence to your customers.

Nuctone

for **GREY HAIR**

Retail Price 6/6 per bottle.
Price to you 52/- per doz.

In three grades:

NUCTONE for dark and medium hair.
NUCTONE ECLAIRE for fair & auburn shades.
NUCTONE CONCENTRE for Gentlemen.

Wholesale Distributors:

HENRY C. QUELCH & CO.
4-5 Ludgate Square, London, E.C.4

Manufactured by
STEWART, GOODALL & DUNLOP, LIMITED.
4 Dering Street London, W.1

We invite your enquiries for ESSENTIAL OILS

BERGAMOT, Extra

GERANIUM

Twice rectified on Rose Leaves
Rose de Cannes
French
African
Bourbon

LAVENDER

Mt. Authion
Aux Fleurs
Mt. Blanc
Ordinary
Spike, Extra

NEROLI

Bigarade Petales Extra
Bigarade
Superfine

ROSE OTTO

French
Bulgarian

Almonds	Pennyroyal
Aniseed	Peppermint
Cajuput	Petit Grain
Cinnamon	Pine, Sylvestris
Citronella	Portugal
Cloves	Rosemary
Eucalyptus	Santal Ang.
Juniper Bacc.	Sassafras
Juniper Lig.	Thyme
Lemongrass	Verbana
Lemon Extra	Ylang Ylang
Orris Root, Concrete	

SPURWAY ET CIE., Ltd.

ESTABLISHED 1825.

89 Great Eastern Street, London, E.C.2

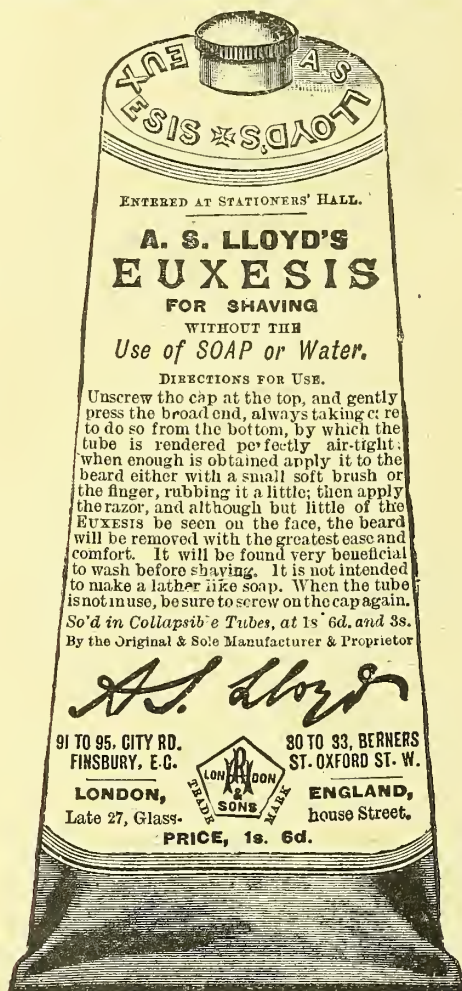
Factories & Distilleries: Cannes-Grasse, France

PARIS NEW YORK LEIPSIC
KINGSTON, Ontario.

A. S. LLOYD'S EUXESIS

(THE GENUINE).

For Shaving without Soap, Water, or Brush.



Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-Mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY and may be obtained at either of our Warehouses.

PRICES ON APPLICATION.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as illustration.

Proprietors: **R. HOVENDEN & SONS, LTD.**
LONDON: 29-33 Berners Street, W.1; and 89-95 City Road, E.C.1.

4 out of 5

Four out of five men and women past forty, and thousands younger, suffer from Pyorrhoea. This is a fact—proved by dental statistics.

How many of the people who pass your shop day after day come within this great majority?

Undoubtedly, you have an enormous market for a certain preventive against Pyorrhoea at your very door.

Forhan's For the Gums is a preventive of Pyorrhoea when used in time and used consistently.

And the simplest, most inexpensive method of attracting to your shop the sufferers from Pyorrhoea, those who realise their need for protection, is to display Forhan's For the Gums show-cards in your window.

They are signposts showing the way to escape from the menace of Pyorrhoea. They are signposts that will direct to your counter the demand aroused by Forhan's For the Gums national advertising.

Forhan's

FOR THE GUMS

*More than a Tooth paste
—it checks Pyorrhoea.*

Thos. Christy & Co.
London.

A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

CAUTION.

The Labels on GENUINE EUXESIS bear two signatures—
A. S. Lloyd in Black Ink, and that of his Widow,
Aimée Lloyd, in RED. Refuse any other.

**Sole Manufacturers and
Proprietors:**

AIMÉE LLOYD & CO.

**23 PANTON STREET (formerly named Spur Street),
HAYMARKET, LONDON, S.W.**

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

"Newbery's"
FRANCIS NEWBERY & SONS LTD.

A FEW SPECIALS

HAIR BRUSHES

PURE BRISTLE, HIGH CUT,
STIFF UNBLEACHED, SCREWED BACKS

11 Rows × 1½ inches, per dozen	90/-
15 Rows × 1½ " " "	132/-

Aluminium Drinking Cups

6d. Per dozen	3/9
1/3 " " " "	10/-

COMBS, DRESSING

SPECIAL PRICES.

6-inch Gent.'s Taper, No. F. 27	Doz.	3/9
7½ " " Stout Back, No. 22	"	4/6
6½ " " Roach Back, No. 5238	"	6/6
7 " " Roach Back, No. 21	"	7/6

All White Celluloid

FRANCIS NEWBERY & SONS, LTD.
LONDON CARDIFF LIVERPOOL

WE ARE

THE ACTUAL MAKERS OF CAMPHOR ICE IN BLOCKS

Supplied in Tins or Loose
Tablets already tinfoiled and
ready for own packing.

State your requirements and
how you desire packed, when
prices and sample will be
forwarded free.

MACSONS LTD.

MANUFACTURING CHEMISTS,

Blyth, Near NEWCASTLE-UPON-TYNE.

PARFUMS D'ORSAY

PARIS

EXTRAITS:
FLEUR DE FRANCE
CHEVALIER
LES FLEURS
ROSE
CHYPRE
 ETC., ETC.

EAU DE COLOGNE
FACE POWDER
FACE CREAM
LOTIONS
TOILET SOAPS
SHAMPOO POWDER
 ETC., ETC.

*FINEST PRODUCTS IN UNSURPASSABLE PRESENTATION
 AT REASONABLE PRICES.*

SOLE BRITISH AGENTS:

S. NAMIAS' SONS 54 GEORGE STREET, BAKER STREET, W.1.
 Telephone: MAYFAIR 3925.

IRISH AGENTS: W. J. RANKIN & SON, 11 Waring St., BELFAST. Telephone: BELFAST 3211.

*This delightful cream
 meets the needs of all
 ladies*

The Phyllis Earle Foundation Cream is a delightful greaseless cream for use before powdering and one which will preserve the softness and smoothness of the skin and delicacy of the complexion.

There is a demand for this cream amongst those who know how really beneficial a good cream can be for it is essentially a high-class product. Profits are just right for the pharmacist who will find that to stock it is well worth while on account of the repeat orders he will get through recommending such a charming cosmetic.

PHYLLIS EARLE FOUNDATION CREAM

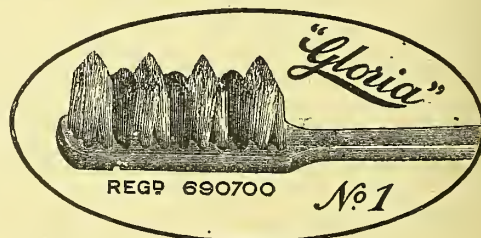
Write for trade terms and full particulars.

PHYLLIS EARLE Ltd.
 15 North Audley Street, W.1.

(Proprietor. of "Kemolite.")

BIDWELLS

NEW DESIGN.



ADVANTAGES:

Used up and down on the teeth it cleans in between them, and if pressed down hard the bristle will not crush.

Short knots in extra hard white, yellow or black bristle, long knots always white. Ventilating holes in back and hole in handle for hanging up. Sterilised and sealed in transparent Carton.

PRICE 17/- dozen; 19/- Hard.
 MINIMUM RETAIL 2/3 each; 2/6 each.

Castle Mills, Axminster, Devon.

TWO WINNERS!

Months of Experiment have produced two great selling Window Displays—now offered to you—FREE!

Yours for the asking! Two Gibbs window displays that really sell the goods. One each for Gibbs Dentifrice and Gibbs Shaving Soap.

Our Window Display Staff has carefully tested each in various parts of the country. Both displays are proved sales makers.

Clear instructions accompany each display. The installation entails no expense and needs but little time.

Take this unique opportunity to give your sales a good hard push in the right direction.

Write now for full particulars.

**D. & W. GIBBS, Ltd. (Dept. DG10),
City Soap Works, London, E.1.**

Gibbs
**WINDOW
DISPLAY
SERVICE**

The experiments of our Display experts continue, and periodically we will announce the availability of further displays that have amply proved their worth.

QUALITY PREDOMINATES

WITH the help of our advertising you have to sell these products the first time only. The second and each successive sale is assured by the quality of the goods themselves. Never be out of stock of these quick-selling, rapidly moving lines. Recommend them with confidence and remember—*every sale means a pleased and satisfied customer.*

REUDEL BATH SALTRATES AND ALKIA SALTRATES

THE BATH PREPARATION PAR EXCELLENCE, cures Corns and all Foot Troubles permanently, stops Rheumatic or other aches and pains within ten minutes.

Sells at 2/- and 3/3 (P.A.T.A.)

The acme of perfection in Salines. Unrivalled for Liver, Kidney, Stomach, Blood and Intestinal Disorders.

Sells at 3/3 a large bottle (P.A.T.A.)

These products simply will not stay on the shelf.

SOME TRULY REMARKABLE TESTIMONY FROM CHEMISTS

READ THESE LETTERS IN SEQUENCE:

CHARLES ROBERTSON
CHEMIST AND
PHOTOGRAPHIC DEALER.
115, Market Street, ST. ANDREWS.
Teleph. - Day No. 125. Home No. 125. Home No. 125.

Messrs. Saltrates Ltd.,
London, W.1.

Feb. 24th.

Dear Sirs,

Please send order carriage paid.

You very restless. I have difficulty in keeping the shelf.

This interest you— At the same time I received an order for Reudel by post yesterday, I had a customer at my counter calling for a second packet. A few moments after, another customer called for 3/3 Alkia.

In less than a quarter of an hour I had realised 3/1 profit, from your advertising. Very interesting, that, isn't it? I am always interested in results from advertising, being a keen believer in printers ink.

Yours very truly,
Charles Robertson

W. CORNISH, M.P.S.
THE PEOPLE'S CHEMIST
The Oxford Pharmacy 188 Lower Ashley Rd
BRISTOL
April 24th.

Messrs. Saltrates Ltd.,
London, W.1.

Dear Sirs:— I was reading through reproduction of Mr Robertson's (St Andrews) letter on page twelve of to-day's date Chemist & Druggist and I think this afternoon I surpassed his feat, in my shop as above. Four customers following, purchasing Saltrates preparations, as follows.

2/- Reudel Bath Saltrates	} all in five minutes or so.
3/3 Alkia Saltrates	
2/- Reudel Bath Saltrates	
3/3	

Later on in the day I was asked for another 2/- size Reudel, but in this case the customer would not take the 3/3 size, as I missed the sale, having just sold the last small package. I am quite prepared to admit that this is a coincidence that does not often occur, and probably was in part due to other brother Pharmacists being "Sold out". But your preparations are always good sellers with us.

I thought the foregoing would interest you, and it is absolutely authentic, as my Lady Assistant can witness. If the "Tale wants adorning" and I may "point a moral", I would say never load up your shelves with goods that stick there, but to borrow Mr Robertson's "Motto" phrase fill up with "restless" goods, which are restless to the point of removal for "Cash Till Good".

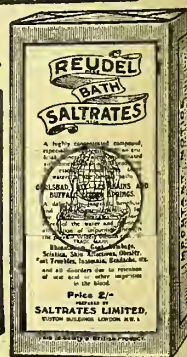
With compliments,
Yours faithfully, *W. Cornish*

Note.—The above statements were sent to us without solicitation of any kind.



YOU can stock these goods on Guaranteed Sale Terms. Carriage Paid in United Kingdom on orders for 3 dozen and over, which may be assorted. Special Terms for Window and Counter Display.

SALTRATES LIMITED
Euston Buildings, LONDON, N.W.1.



Frozoclone

REGD.

**ONE
SIZE
ONLY**

The Original and Best
SOLID EAU DE COLOGNE

Warning



**IN GREEN
BOTTLES
Registered.**

The attention of the Proprietor of "FROZOCLONE"—the ORIGINAL Solid Eau-de-Cologne—has been drawn to the fact that certain persons are offering a solid Eau de Cologne under the name of "FROZOCLONE," but not made by R. Demuth's Laboratories.

The word "FROZOCLONE" is the registered Trade Mark of R. Demuth's Laboratories, and the article is packed in a distinctive style of green bottle with silver-plated top (as illustration).

The Proprietor hereby gives notice that he will institute legal proceedings immediately to protect himself and the Trade against such fraudulent attempts to pass off other articles as "FROZOCLONE."

**There is one size only of "FROZOCLONE," and this is retailed at
3/6 P.A.T.A.**

R. DEMUTH'S LABORATORIES
68 Salusbury Road, and Montrose Avenue, London, N.W.6



TRADE MARK



It pays to display—shows attractive profits

The special bonus offer in addition to attractive profits makes ENOLIN a line well worth featuring in your window. The public recognise ENOLIN as a tooth paste of quality. Where it is

shown in conjunction with ENOLIN showcards the effect of our past and present advertising begins to show its value to you by increasing sales—It pays to display.

Sole Manufacturers of Enolin Tooth Paste
ENOLIN LTD., 201 King Street,
Hammersmith - London, W.6.

PHONE: HAMMERSMITH 1605.

Enolin

Do you
stock

ALL **“BRITON” Toilet Brushes?**
IT PAYS TO DO SO.

THE BRITON BRUSH CO., Ltd., Wymondham, NORFOLK.

WRITE
FOR
SAMPLES
AND PRICES.

The Evan Williams
 ALWAYS IN GREAT DEMAND.
 PRICE LIST ON APPLICATION.
The EVAN-WILLIAMS Co., Ltd., 18 Ogle Street, W.1.
SHAMPOO.

The **“Crusader”**
Pure Red Rubber Sponge.

Companion to the “Crusader” Rubber Hot Water Bottle. Retail in 4 sizes:—4 1/2”x3 1/2” at 11d., 7”x3 1/2”x2” at 1/8, 5 1/2”x3 1/2”x2 1/2” at 2/4, 7 1/4”x3 1/2”x2 1/2” at 3/6. Entirely British.



Do not confuse with cheap imitations. Send a card for sample, details and the attractive terms.

The Crusader Rubber Co. Ltd. Wall, E.C.

ESSENCES

HIGHEST CONCENTRATION.

Sole Agents for Gt. Britain and Colonies
 FOR

FRIES & BRO. NEW YORK

The World-Renowned Makers of
FIRST QUALITY ESSENCES.

PEACH
 APRICOT
 HONEY
 MAPLE
 &c.

Stocks
 in
 London.

Ask for
 Quotations
 & Samples.

A. CONNELL & CO.,

20 BEVIS MARKS, LONDON, E.C.3.

Phone: AVENUE 1945. Telegrams: “NITROZONE, LONDON.”

GILLETTE BLADES. U.S.A., 30/- box; Canadian, 28/- box; Nickel Case, 6/6; Blades, 3/- package, 35/- box; **“C” Model**, 3/9; **“Standard Model**, 23/- dozen; 7/6 The New Yellow Metal Jewellers Compo, 28/- doz.; Blades, 30/- gross. Every Type of Razors and Blades in Stock. Perfect Range of French Shaving Brushes; Send for Sample Range 5/6; Money Refunded if not satisfied. **Military Hair Brushes**, U.S.A. make, Boxed, 6/- doz.; 3 doz., 16/9. **Wellsworth Goggles**, fitted with Sir William Crook's Anti-Glare Lenses, 15/- dozen. Post Paid. Cash with all orders.
A. FRANKS, 23 Bartlett's Buildings, London, E.C.4



SHADEINE
 For COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses. Trial Size 8d., per post 10d. 1/4 size, per post 1/7; 2/6 size, per post 2/10; 3/9 size, per post 4/3; 8d. size, 6/- doz.; 1/4 size, 12/- doz.; 2/6 size, 24/- doz.; 3/9 size, 36/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

G. B. KENT & SONS, LTD.

Are known the World over as
 the Largest Manufacturers of

**BEST
 BRITISH
 BRUSHES**

Please write for full Particulars to—
75 Farringdon Road, E.C.1.

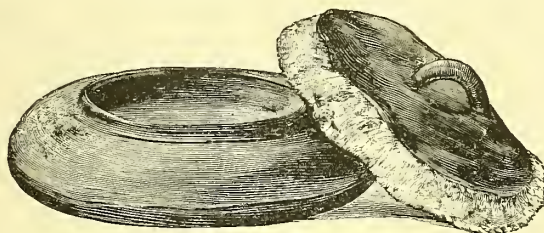
Beaverpuf Series *"The Ladies' Natty Friend"*

The Beaverpuf Series can be obtained with either Lambswool, Nutria, Beaver or Musquash Fur Puffs according to Model.

THE LARGEST SALE OF ANY POWDER PUFF IN THE WORLD

Well over 1,000,000 now in use

Model L.P. 9
Powder only
Price 4/-
complete



Powder refills for
same 6d. each
Finest Powder
only

Obtainable from all Stores, Chemists and Hairdressers of repute throughout the World, or direct from Sole Concessionaires for Great Britain and Ireland—

BEAVERPUF, Ltd., Priest Bridge, London, S.W.14

Phone: PUTNEY 166.

Good Lines

"DURAPEDE"

A liquid application for tender and hot feet. No bathing necessary.
It is applied to the feet with a sponge night and morning.

4-oz. bottles	-	-	-	7/9 per doz.
10 " "	-	-	-	14/6 " "

Name and Address printed free on 3 dozen lots Showcards supplied.

LAURENCE'S ANTI-STING

A wonderful preventative against and a certain remedy for the Stings of Wasps, Bees, Mosquitoes, Gnats, Midges, &c.

AS A PREVENTATIVE.—Paint the exposed part of the body. AS A REMEDY.—Apply one drop to the part affected, and renew at intervals until relief is obtained. Packed in bottles, each in a distinctive carton.

Price 5/9 per dozen.

SPECIAL POCKET SIZE, 4/6 per dozen.
Samples on Application.

C. R. HARKER, STAGG & MORGAN, LTD.

DEVON WHARF AND BELL WHARF.

EMMOTT STREET, MILE END, LONDON E. 1.

DEARBORN (1923) LTD.

37 Gray's Inn Road,
LONDON, W.C.1.

Toilet Specialties.

	Price per doz.	Selling Price to Retailer P.A.T.A.
PILENTA SOAP ...	10/-	1/-
A complexion soap.		
PROLACTUM ...	10/-	1/-
For the lips.		
PARSIDIUM JELLY ...	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE BLOSSOM ...	22/6	2/6
A dressing cream.		
BORANIUM ...	22/6	2/6
A hair tonic.		
CLEMINITE ...	22/6	2/6
For a face lotion.		
COLLIANDUM ...	22/6	2/6
For a face tint.		
PERGOL ...	22/6	2/6
A deodorant.		
TEKKO PASTE ...	22/6	2/6
Camphor cream.		
STALLAX ...	22/6	2/6
For a shampoo.		
JETTALINE ...	31/6	3/6
For clearing the skin.		
PEMINOL ...	36/-	4/-
A depilatory.		
MENNALINE ...	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX ...	31/6	3/6
A face cream.		
STYMOL ...	36/-	4/-
For oily complexions and blackheads.		
SILMERINE ...	22/6	2/6
Hair-curling fluid.		
BARSYDE ...	22/6	2/6
Dandruff eradicant.		
TAMMALITE ...	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL ...	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM ...	22/6	2/6
For whitening the hands.		
HARAPOSA ...	22/6	2/6
Nut, oil shampoo.		
COCONOIDS ...	31/6	3/6
For figure development.		

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES { 36/- 4/-
For obesity. 58/6 6/6

SOFT PALERIUM... 45/- 5/-

LIQUID NAIL POLISH ... 10/- 1/-
Brilliant and lasting.

Stocked by ALL Wholesale Houses.

COLONIAL DEPOTS AND AGENCIES.

Australia: ALL WHOLESALERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.

South Africa: LENNON Ltd., Cape Town, etc.

India: FRAMJEE & SON, Bombay.

SMITH, STANISTREET & CO., Calcutta.

New Zealand: SHARLAND & CO., Auckland & Wellington.

South America: DEARBORN (South America) Ltd., Calla

Salta 264, Buenos Aires.

Straits Settlements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.

Collapsible



Betts'
make
the Best

METALLIC CAPSULES,
COLLAPSIBLE TUBES,
SPRINKLER CORKS,
TIN FOIL
or LEAD FOIL.

Betts & Co. Ltd.

1. Wharf Rd., City Rd.

London N.1.

Established 1857.

Millions of People

are being told in our
Press Advertising that

"to get the Pro-phy-lac-tic Tooth Brush, originated and made by the Florence Manufacturing Co., of Florence, Massachusetts, U.S.A., since 1880, look for the hyphenated word Pro-phy-lac-tic stamped on the YELLOW Box."

To an ever-increasing public our convincing advertising is driving home in the monthly, weekly, and daily Press the merits of the Pro-phy-lac-tic Tooth Brush in the sanitary YELLOW Box.

Let the public see the Pro-phy-lac-tic in your windows—and thus profit by this advertising.

Pro-phy-lac-tic Tooth Brush

Only in YELLOW Box

*Manufactured by the Florence Manufacturing Co.,
Florence, U.S.A.*

In 3 sizes—adult's, youth's, and child's;
in 3 textures of bristles—hard, medium, or
soft; one quality only—each in its indi-
vidual YELLOW Box with hook for hanging.

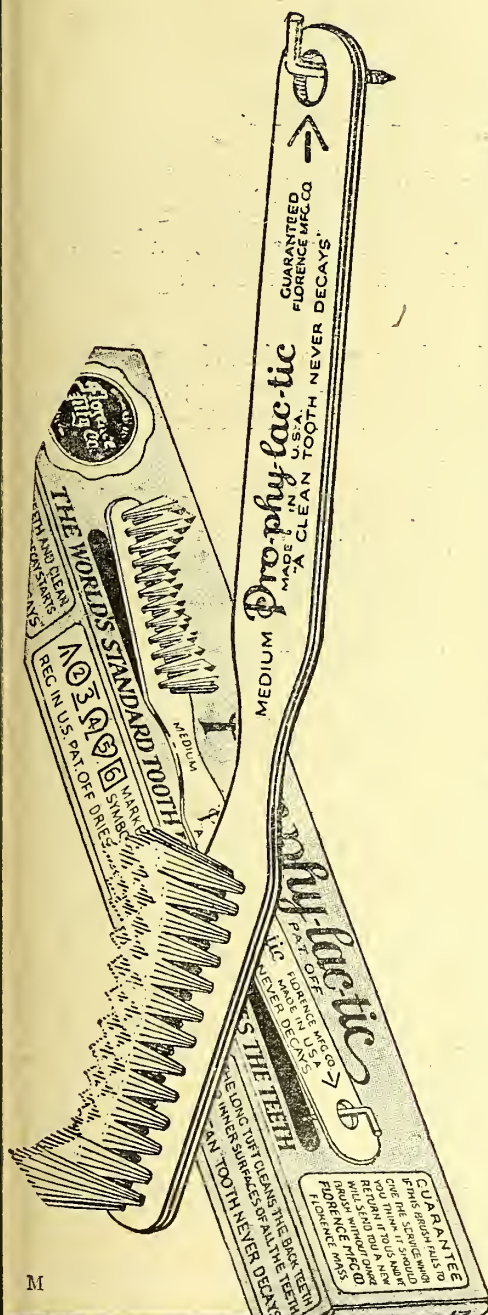
Price to the Public 2/6

To the Retailer, a Full Trade Profit

Sold through the Wholesale Houses only

WM. E. PECK & Co., Inc.

31 Bartholomew Close - - LONDON, E.C.1



Chemical Food



*A Fine Product
that guarantees
satisfaction*

THIS is a specially attractive and profitable line unvarying in its quality and excellence. It possesses a rich, brilliant colour and a most agreeable flavour.

Guaranteed to be a pure phosphate Syrup made only with pure cane sugar; and free from hydrochloric acid and other extraneous ingredients.

"Specialty" Chemical Food is packed in white flat, panelled flat and oval bottles with neat white viscose caps—its appearance is that of exceptional refinement.

Script and tastefully decorated labels supplied.

"Specialty" Chemical Food is also sold in bulk. Send a postcard for latest keen quotations.

OTHER

"SPECIALTY" PREPARATIONS.

All classes of medicinal and Toilet lines, including Toilet Paraffins and Brilliantines, Ointments, Cold Creams, Petroleum Jellies, etc., in most attractive packings at extremely fine prices.

SEND FOR LATEST PRICE LIST.

**ANGLO-AMERICAN OIL COMPANY LTD.,
SPECIALTY DEPT.,**

Albert Street, Camden Town, N.W.1

Telephone: Hampstead 4046-4047

Telegrams: "Nufinjol Norwest-London"

Two fine winter lines

RETAIL

1/-

SMALL



RETAIL **1/-**



Good Showmatter that will help you increase sales is included in every order.

Thermal Wool

One of the best sellers for Winter time. Our production of this line has steadily increased each year, yet there is still enormous scope for sales.

Thermal Wool is a very high quality wool, very strongly impregnated with Capsicum and Methyl Salicylas. It is also covered with a soft gauze which prevents fluff sticking to the clothing, making it much more hygienic than the uncovered brands.

Thermal is also packed under the names Capsicum, Oko, Otowl or Red Pod. When sending your order you may specify any particular packing which pleases you. Free showmatter is sent with each order, and a complete display with a gross order.

Small, Retail 1/-

49 per doz.

46 per doz. gross lots.

Large, Retail 1/9

76 per doz.

73 per doz. gross lots.

Nay-sol (Nasal) Balm

A profitable repeat line which daily becomes more popular with your customers. A Jelly containing Ac. Boric, Ac. Carbolic, Menthol, Thymol, Ac. Salicylic, Camphor, Ol. Eucalyptus, Paraff. Mol. Alb., it is most effective and has the benefit of giving direct application, being packed with an introducer for inserting into the nostril.

Retail 1/-

66 per doz.

63 per doz. gross lots.

W. B. CARTWRIGHT, Ltd.
RAWDON, NEAR LEEDS

also at London and Glasgow.

Before Buying Bottles Be Sure

To write Rylands, who have the most up-to-date Plant for supplying Bottles in superior quality of White Flint Glass. With their Modern Machinery they are in a position to guarantee all Bottles of uniformly accurate capacity.

Samples and Prices promptly from

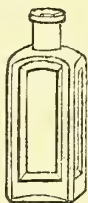
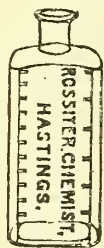
**THE RYLANDS GLASS &
ENGINEERING CO., LTD.**
BARNSELY, YORKSHIRE.

GLASS BOTTLES

Medical Flats, Panels,
Vials, Limes, Poisons,
Honey Jars, Screw
Pomades, etc., etc.

TOM LAYCOCK & CO.

Cabinet Chambers,
Basinghall Street, LEEDS.



GLASS BOTTLES

MEDICAL FLATS, PANELS, POISONS,
VIALS, KALIS, LIMES, FEEDERS.

CLINICAL THERMOMETERS

PRICES ON APPLICATION.

FARROW & CO., 87 Borough High Street, London, S.E.1.

TEL. NO. HOP 3222.



GLASS BOTTLES

FULL RANGE OF

Medicals (plain and graduated),
Flat Dispensing, Panel Flats,
Poisons, Limes, Kalis, Emulsions,
Tobins, Vials, Tablets, &c. &c.

MANUFACTURED BY—

MONEY'S PATENTS, LTD.

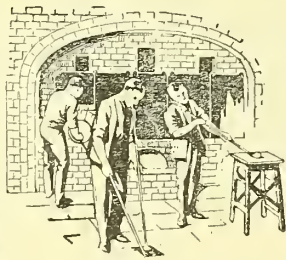
111 Dalston Lane, LONDON, E. 8.

Phone: Dalston 1456.

Highest Quality
in

WHITE FLINT,
ACTINIC GREEN,
PALE GREEN,
AMBER,
BLUE.

LOWEST
PRICES.



BOTTLES

*and Glassware
of Every Description
for The Trade*

WHOLESALE ONLY

In all colours
MEDICAL FLATS
PANELS
VIALS
POISONS
LYSOLS
LIMES
KALIS
MEXICANS
PERFUMES
FEEDING BOTTLES
&c. &c.



LAX & SHAW

LIMITED.

*Albert Glass Works,
Hunslet, Leeds.*

BEALINDA GLASS WKS. HUNSLET. CLARENCE GLASS WKS. HUNSLET.
TELEGRAMS FEEDERS. LEEDS. TELEPHONES 27047, 23080

BUY BEATSON'S BOTTLES

SEE THAT YOUR
SPECIALITIES ATTRACT

*The Chemists who are doing
the business are the Chemists
who turn the work out well.*

*Let us help you to turn yours
out well by supplying you with
a really first-class bottle, beauti-
fully finished on surface, round
and even in mouth, accurate in
capacity, and reasonable in price.*

ESTABLISHED 1751.

Beatson, Clark & Co. Ltd.
GLASS WORKS,
ROTHERHAM.



ACELTA

Caps your Bottles

*Attractively, Hermetically
and is Hygienic.*

**ACELTA EFFECTIVELY REPLACES
ALL OTHER FORMS OF CAPPING.**

*Write to-day for Free Sample
and descriptive booklet.*

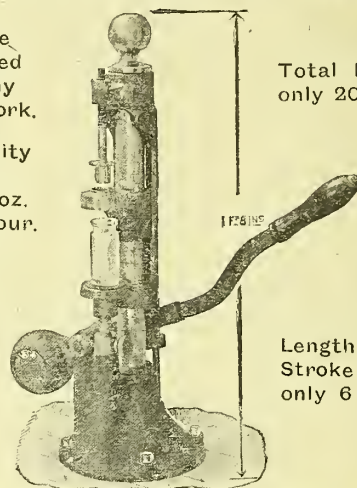
ACELTA CAPPING CO. LTD.
185 PRINCES ST., MANCHESTER.

The "MINIATURE" CORKING MACHINE

for Medicine Bottles, Phials, &c.

Can be
adapted
for any
size cork.

Capacity
up to
100 doz.
per hour.



Total height
only 20 inches.


Length of
Stroke
only 6 inches.

Will leave cork projecting or drive it flush as desired.

PRICE £8 : 15 : 0 **NETT CASH**
F.O.R. London

L. Lumley & Co. Ltd., THE MINORIES, E.1

*Makers of Filling, Corking, Bottle-Washing
Machinery, etc. etc.*



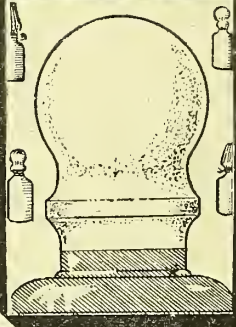
CORKS
for Chemists.

Send us your Enquiries
and compare our prices.
Wholesale & Export Only.

C. OLLEY & SONS, LTD.
Established 1841.
Camperdown St. and Gt. Alie St., London, E.1
Tel. No : Avenue 6531. Tel. Ad. : "Circumference, Ald, London."

METALLIC CAPSULES
for all kinds of Bottles and Jars.

The Tonkin Metallic Capsule Co.
Proprietors: C. Olley & Sons, Ltd.



Do not fail to
investigate the
NEW and IMPROVED

VISKAP

**SELF - FIXING
BOTTLE CAPS**

Details from
**THE VISCOSÉ
DEVELOPMENT Co., Ltd.**
BROMLEY, KENT.
PROMPT DELIVERY.



Glass Bottles

Speciality :
**MEDICAL DISPENSING
BOTTLES OF ALL KINDS**

Wholesale & Export
W. SMITH, Senior
169-170 Railway Arches, Braintree St.
Cambridge Road, Mile End, E.2.
Telephone No. Central 13647. *Estd. 1880.*

GLASSWARE



JULES LANG & SON

Telephone :
North 2770-2 (3 lines).
Codes : A B C, 5th
Edition.
Scott's 10th Edition
(1906).

The Glass Specialists
CHARLTON PLACE,
ISLINGTON, LONDON, N.I.

Telegrams :
" Assorted, 'Phone,
London."
Bentley's Complete
Phrase Code.

*Glassware
of every
description
from Stock
-or your
own design*

IN these days of reduced demand and intense competition a successful manufacturer must of necessity produce goods that are of the right quality and requirements, at a price that everyone is willing to pay.

JULES LANG & SON have been manufacturing Glassware for the Trade since 1858, and to-day their business is larger than at any time in their history.

The following always in stock :—

LIMES	MEXICANS	POMADES
MEDICALS	TOBINS	PANELS
VIALS	KALIS	CANNONS
<i>Also</i>		
CHEMIST & DRUGGIST	SAMPLE CASES	
SUNDRIES	TUBES	
CORK WADS	TIN BOXES	
BOXWOOD STOPPERS	TABLET BOTTLES, and	
CHEMICAL AND LABORATORY GLASSWARE		



SEND US YOUR REQUIREMENTS

The Chemist & Druggist COMPACT LIBRARY

PHARMACEUTICAL FORMULAS.

Being the "Chemist & Druggist's" book of useful recipes for the drug trade. By PETER MacEWAN, Pharm. Chem., F.C.S. (Ninth Edition, 1921), containing over 1,050 pages.
Price 1s. net, by post 15s. 9d.

THE ART OF DISPENSING.

A treatise on the Methods and Processes involved in Compounding Medical Prescriptions, with Dictionaries of Incompatibles and New Remedies, and numerous Memoranda for Dispensers and Prescribers (Ninth Edition, 1921). By PETER MacEWAN, F.C.S., Pharmaceutical Chemist. Price 8s. net, by post 8s. 6d.

VETERINARY COUNTER PRACTICE.

An indispensable book for chemists, whether urban or rural. It deals with the ailments of horses, cattle, sheep, pigs, dogs and poultry. The seventh edition (1920), like its predecessors, is by an experienced M.R.C.V.S. Contains 440 pages.
Price 7s. 6d. net, by post 8s.

CHEMISTS' WINDOWS.

An illustrated treatise on the art of displaying pharmaceutical and allied goods in chemists' shop windows with Chapters on ticket writing, the mechanics of moving devices, and business-promoting accessories. Contains 216 pages and 200 illustrations.
Price 3s. 6d., by post 3s. 9d.

DISEASES AND REMEDIES.

Chemists and druggists need to know something about diseases and their treatment, and this book fills the gap between books of domestic medicine and standard works for medical practitioners. It has been brought up to date and enlarged to 264 pages. (5th Edition, 1921.)
Price 5s. net, by post 5s. 3d.

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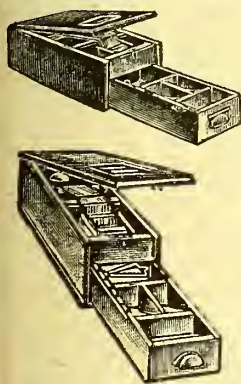
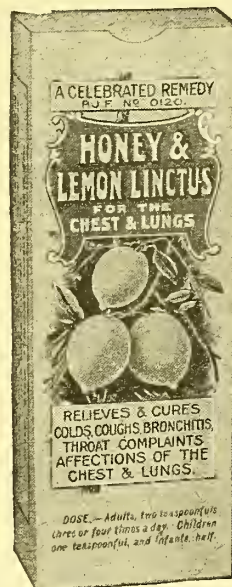
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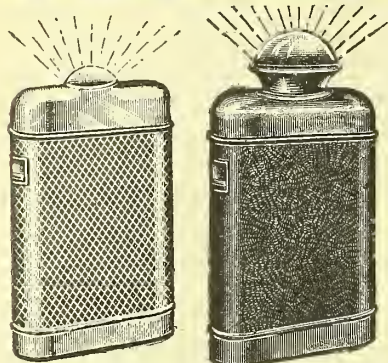
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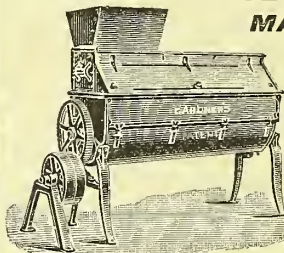
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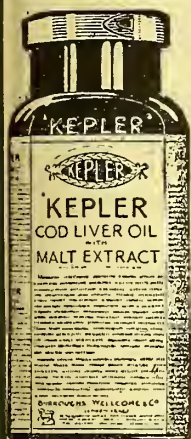
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Known, Admitted, and Approved Remedies

FOLLOWING the practice which we started some years ago we propose to reserve space in the forthcoming issue of *The Chemist and Druggist Diary*, 1924, for the registration of formulas for "known, admitted, and approved remedies." Under the Medicine Stamp Act, 1812, such medicines, when sold by chemists, are exempt from medicine-stamp duty so long as the formulas are contained in recognised works of reference and proprietary rights are not claimed. A clear indication must be given, on the label of the medicine, of the published formula as evidence that the medicine is of the kind to which the exemption refers. *The Chemist and Druggist Diary* was the first book of reference recognised by the Board of Customs and Excise, after the British Pharmacopœia, and the *Diary*, being published periodically, affords an exceptional opportunity for chemists to add any fresh formulas for medicines coming within the definition of "known, admitted, and approved remedies." Chemists who desire to take advantage of this arrangement should forward true copies of the formulas with the titles and directions for use so that we can include these in the *Diary*. We shall attach the correct reference numbers to the formulas when they are published. The formulas, which must be written on one side of the paper only, should be sent not later than October 13, addressed to the Editor, C. & D., 42 Cannon Street, London, E.C.4.

Sale of Poisons Publications

For the Retailer

THE recent vindictive prosecutions of chemists by the Home Office have shown the necessity of avoiding the many pitfalls of the Dangerous Drugs Acts, and the Regulations and numerous Amendments made under the Acts. These are being enforced to the minutest detail upon chemists, and as it is impossible to cope single-handed with the Acts and Regulations it is absolutely necessary that every chemist should possess a copy of the C. & D. Poisons Card, No. 4. This is a codification in non-legal language of the intricate details of the supply of "dangerous" drugs. The card gives also the percentage and other strengths required for (1) deciding whether prescriptions come within the Acts, and (2) for making the numerous entries in the Registers which have to be kept under the Acts. There is no other publication covering the same ground. The new card takes the place of the card first issued in August 1921, and includes the numerous changes that have taken place since the Act came in force. The card is selling in large quantities, but we urge those of our subscribers who have not obtained a copy to do so without delay for their own protection. The prices are as follows:—

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Dangerous Drugs Act

From the London Gazette, September 14.

The Dangerous Drugs (No. 3) Regulation, 1923, dated September 10, 1923, made by the Secretary of State under Section 7 of the Dangerous Drugs Act, 1920 (10 & 11 Geo. 5, c. 46).

In pursuance of Section 7 of the Dangerous Drugs Act, 1920, I hereby make the following Regulation (which may be cited as the Dangerous Drugs (No. 3) Regulation, 1923) amending the Dangerous Drugs Regulations, 1921.

Regulation 15 of the Dangerous Drugs Regulations, 1921, shall be amended and shall take effect as if at the end of the Regulation were inserted the following words:

"If a foreign ship in any port in Great Britain requires to obtain a supply of any of the drugs in order to complete the necessary equipment of the ship, the master of the ship is authorised to purchase and be in possession of such quantity of any of the drugs as may be certified by the medical officer of health of the port where the ship is (or in his absence by the assistant medical officer of health of the port) to be necessary for the purpose, the quantity not to exceed what is required for the use of the ship until it next reaches its home port. The certificate given by the medical officer or assistant medical officer of health of the port shall be marked by the supplier with the date of the supply and shall be retained by him and kept available for inspection."

W. C. BRIDGEMAN,

One of His Majesty's Principal

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September 10, 1923.

Japanese Earthquake Fund

Further donations to the Lord Mayor's Mansion House Relief Fund include: M. Samuel & Co., £1,000; Ralli Bros., £1,000; Cadbury Bros., Ltd., £525; Mond Nickel Co., Ltd., £210; Ilford, Ltd., £105; MacLaine, Watson & Co., £105; Eastwood & Holt, £105; Chance & Hunt, Ltd., £105; Howards & Sons, Ltd., £105; Auto-Strop Safety Razor Co., £105; Hamel & Horley, £100; Proprietors of THE CHEMIST AND DRUGGIST, £100; Whiffen & Sons, Ltd., £52 10s.; W. J. Sargent & Sons, £52 10s.; Standard Anhydrous Ammonia Co. of Great Britain, £50; Standard Ammonia Co., £50; G. A. Witt's successor, J. Blum, £50; Bidwell, Bidwell & Co., £25; J. G. Ingram & Son, Ltd., £10 10s.

Contracts

The following contracts have been accepted by the bodies named:

Derbyshire Royal Infirmary.—Richard Daniel & Son, manufacturing chemists, Derwent Street, drugs and chemicals.

Lewes Guardians.—Boots, Ltd., drugs; W. H. Bailey & Son, Ltd., London, dressings.

Richmond Surrey, Guardians.—T. J. Smith & Nephew, Ltd., Hull, surgical dressings.

Hull

It is reported that a large plant is being erected locally to manufacture alcohol from potatoes.

A warning has appeared in a local paper against canvassers who offer to make free photographic enlargements.

The statement made during the hearing of a cocaine charge at Clerkenwell Police Court, London, on September 15, that the Customs examination at Hull is not strict, is resented by the local officers.

Leicester

Leicester traders propose taking steps to secure electric current at cheap rates for window illumination at night after shopping hours. Some chemists have tried the experiment when they have had special displays, but they are not fully convinced that the cost and trouble are justified by the results.

Liverpool

The session of the Liverpool Chemists' Association will be opened with a lecture on October 10. On October 24 a ball is to be held at the Adelphi Hotel.

The linoleum trick has been attempted unsuccessfully at several pharmacies recently, the story of the valuable remnant to be had at a nominal price being scouted.

Mr. H. Humphreys Jones, A.I.C., F.C.S., principal of the Liverpool School of Pharmacy, represented the Lancashire Presbytery at the recent conference of the Welsh Presbyterian Assembly held at Llanberis.

Mr. J. L. Hirst was among the guests of Mr. Thomas H. Bickerton, Ch.M., J.P., a Vice-President of the National Temperance League, at an Adelphi Hotel luncheon, on September 18, when Lieutenant-Colonel John Hay, D.L., M.D., F.R.C.S., spoke on "Next steps and new points in research into the Science of Alcohol."

The British Association meeting in Liverpool has attracted almost, if not quite, a record attendance, but this appears to have had little influence on trade. Mr. Edwin Thompson (Thompson & Capper, Ltd.) is one of the local secretaries, a position held by his father, the late Mr. J. C. Thompson, at the previous meeting in Liverpool in 1896. Of the two excursions made by the Association on September 15, one, under the leadership of Mr. T. Edward Lescher, O.B.E., visited Stonyhurst College, and the other inspected the works of the Aluminium Corporation, Ltd., Dolgarrog. Mr. Lescher's party, which included Lord Rayleigh, Professor H. H. Turner, Oxford, Professor Sir R. A. Gregory and Professor A. S. Eddington, Cambridge, spent the morning seeing over the College and visiting the famous Arundel library. After lunch a visit was paid to the Stonyhurst Observatory. In the latter party pharmacy was represented by Mr. H. Humphreys Jones and Mr. John H. Robinson. Among the subscriptions received was the sum of £10 10s. from the Liverpool Chemists' Association.

Sheffield

Steps have been taken to prevent certain retailers in the district from cutting the prices of various lines.

Mr. C. H. Hewitt, who has returned from a trip to Norway, relates that he met several London chemists during his trip.

In one of the suburbs a notice appears asking for orders for drugs and druggists' sundries to be supplied by a chemist not living in the district.

The members of the Sheffield and District Branch of the Pharmaceutical Society will hold a social evening at the Imperial Rooms in the near future.

Miscellaneous

COST OF LIVING.—It is announced by the Ministry of Labour that, on September 1, the average level of retail prices of all commodities taken into account in Ministry of Labour statistics was about 73 per cent. above that of July, 1914, as compared with 71 per cent. on August 1, 1922, and 176 per cent. on November 1, 1920.

ASPIRIN CAUSES DEATH.—At an inquest at Portsmouth, on September 19, on the body of Mrs. Foster, medical evidence was given to the effect that deceased had fatty degeneration of the heart, and her death was accelerated by hæmorrhage after excessive use of aspirin, and would not have occurred had she not taken so much of that medicament. A verdict of "Death from misadventure" was returned.

ROYAL INSTITUTE OF PUBLIC HEALTH.—A course of lectures has been arranged by the Royal Institute of Public Health, to be given by well-known publicists in the lecture-hall of the Institute, 37 Russell Square, London, W.C., in October, November and December, on "Problems of Personal and Public Health." The Harben lectures, under the auspices of the same body, will be delivered by Professor C. Levaditi, M.D., Pasteur Institute, Paris, on December 11, 12 and 13.

VISIT TO WORKS.—On September 12 the members of the Watford Pharmacists' Association paid a visit to the laboratories of Parke, Davis & Co. at Hounslow. The

party were conveyed by charabancs from Watford, and after being photographed the visitors were conducted over the premises, inspecting the various processes of manufacture. Tea was then served, followed by an illustrated lecture by Dr. White. Mr. E. C. Last (President), on behalf of the Watford Association, thanked the firm for providing such an interesting afternoon.

IN THE COURTS.—At Bolton County Court, on September 12, Frank Healey, commercial traveller, Farnworth, claimed £25 from S. F. Daley, to whom he had paid it with a view to a partnership for the manufacture of soaps and perfumes. Judgment was given for the plaintiff. —At Chorley Police Court, on September 13, R. Wager was sentenced to two months' hard labour for obtaining money by false pretences. Accused had been selling a "petrol saver" which, according to Mr. T. Hamer, chemist and druggist, Fazackerley Street, consisted mainly of common salt with oxide of iron and camphor.

SALE OF SWEET SPIRIT OF NITRE.—At a meeting of the Grimsby Public Health Committee, on September 10, a discussion arose on the report of the inspector, who stated he had taken from local shops various samples of sweet spirit of nitre, and of these three had been found unsatisfactory. It was proposed that the inspector might suggest to the small shopkeeper to discontinue stocking the preparation. The inspector said the bottles from which samples were taken were all marked "B.P.," and as this was the case the shopkeeper was himself responsible. The Committee decided to leave the matter to the discretion of the inspector.

POISONINGS.—An inquest was held at Battersea, London, S.W., on September 14, on the body of Mr. W. F. Enness, chemist and druggist, 57 Eigh Street, Wandsworth, London, S.W., who died from strychnine poisoning on September 12. A verdict of "Suicide while of unsound mind" was recorded. —At South Shields, on September 14, the inquiry into the case in which four members of a family named Coverdale were attacked, two fatally, after drinking a mixture of linseed tea and liquorice, was resumed, and a verdict of death from septic absorption caused by drinking a mixture which had become decomposed was returned. Referring to Professor Bruce White's report that flies were the most likely cause of the tea becoming infected, the Coroner warned the public against leaving food and drink uncovered, and pointed out that linseed tea was a form of drink which easily decomposed, and should be drunk as soon as possible after being made.

DANGEROUS DRUGS ACT CASES.—At Clerkenwell Police Court, London, on September 15, E. Landorff and A. Lundberg, Swedish merchants, Bloomsbury, were again remanded on a charge of being in unlawful possession of, and offering to supply, cocaine. —At Liverpool Police Court, on September 17, Henry Fullford Peters, alias Lieutenant Fullerton, was charged with unlawfully obtaining two tubes of hypodermic tabloids containing morphine sulphate from Bain & Co., chemists, Lime Street, and three tubes from Evans Sons Lescher & Webb, Ltd. It was stated by the police that, in July last, when examining chemists' registers in accordance with the Dangerous Drugs Act, it was noticed that there were several prescriptions from Manchester doctors, who, when seen, said they had not obtained the drugs. Accused, who was stated to have consumed a number of veronal tablets prior to his arrest, was remanded. —At the East Ham Police Court, London, on September 13, Lam Sing, a Chinese seaman, was sentenced to two months' imprisonment for being in unauthorised possession of raw opium. —At Bow Street Police Court, London, on September 19, Peter Vigiland, an Italian, was remanded on a charge of being in possession of cocaine without lawful authority. —At Marlborough Street Police Court, on the same date, a sentence of seven months' hard labour was passed on Breta Gregory for being in unlawful possession of cocaine.

RAMCHAND TEKCHAND & Co. have established themselves as chemists and general merchants at Main Bazar, Hyderabad Sind, India.

Scottish News

Brevities

Mr. A. Sheddon, chemist and druggist, has commenced business at Eaglesham, Renfrewshire.

Mr. D. McCutcheon, chemist and druggist, 567 Duke Street, Glasgow, has taken over the business of Mr. A. Scott, chemist and druggist, Main Street, Cambuslang, who is going abroad.

The committee of the Convention of Burghs, which has been in communication with the Commissioners of Customs and Excise regarding the rendering of methylated spirit more nauseous to the taste or offensive to the smell without detriment to its commercial use, has received a reply stating that the question of the substances to be used in the preparation of mineralised methylated spirits is still under investigation, and that, pending its result, the Commissioners were unable to give a definite reply.

Edinburgh

The Fraser prize (value £1 1s.) in botany, chemistry and materia medica of the Edinburgh Chemists', Assistants' and Apprentices' Association has been awarded to Miss Margaret Combe (Boots, Ltd., 48, Shandwick Place). Miss Combe had full marks in botany and chemistry and very high marks in materia medica.

The Edinburgh district of the Scottish Chemists' Bowling Association carried out a successful single-handed tourney on the Slateford Green, recently. The winner goes forward next year to play for the Scottish championship. Results were as follow:—

1st Ties

J. H. Tanish, Edinburgh .. 9 v. W. S. Glass, Edinburgh .. 8
J. Noble, Leith 10 v. F. Stuart, Broxburn 5
G. O. Andrews, Edinburgh .. 10 v. W. M. Ferrer, Bathgate .. 9

2nd Ties

G. O. Andrews, Edinburgh .. 18 v. J. S. B. Hedde, Leith .. 2
R. Williamson, Edinburgh .. 11 v. D. Mathewson, Blackhall 7
J. Y. Torrance, E. Linton .. 15 v. J. Wilson, Winchburgh .. 4

The third ties were won by Messrs. G. O. Andrew and R. Williamson, who respectively defeated Messrs. J. H. Tanish and J. Y. Torrance. The final was won by Mr. Andrew, who beat Mr. Williamson by 13 to 3. During an interval in the play tea was provided. Mr. C. R. Brown carried through all the arrangements.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Saturday, September 22

Grocers' and Allied Traders' Exhibition and Market, Royal Agricultural Hall, London, N.1, at 10 a.m. until 5 p.m. Daily at 10 a.m. to 8 p.m. Monday to Thursday, and until 6 p.m. on Friday. Closing date, September 28.

Wednesday, September 26

Manchester Pharmaceutical Golfing Society, Manchester Golf Club, Hopwood, at 2 p.m. Woolley Challenge Trophy.

Ealing Pharmacists' Association, Broadway Station, at 1.45 p.m. Charabancs leave on a visit to A. & F. Pears, Ltd., Isleworth.

Manchester Pharmaceutical Masonic Association, Victoria Hotel. Annual meeting and dinner. Chair to be taken at 6.15 p.m. Dinner at 7 o.m. Tickets (10s. 6d. each) from secretary (H. Woodhead) or members of Committee.

LONDON (WESTERN) PHARMACISTS' ASSOCIATION.—The annual reunion will take place at Slaters' Restaurant, 192-194 Oxford Street, W., on October 4. Reception by the President at 7 p.m., followed by supper and whist-drive. Tickets (6s. each) from the secretaries and members of the Committee.

THE INTERNATIONAL DENTAL EXHIBITION will be held from October 8 to 12 inclusive at the University of London (Imperial Institute), South Kensington, S.W.7. Lectures and demonstrations of interest to the dental profession will be given each day. The Chemists' Dental Society will hold a meeting at the Exhibition on October 11 at 5 p.m., Mr. F. R. Sutcliffe (President) in the chair.

Irish News

Brevities

Mr. D. J. O'Mahony has been appointed analyst to the co. Kerry Board of Health at a salary of £50 a year.

Mr. T. T. O'Driscoll, M.P.S.I., passed his Final examination in medicine at the recent medical examinations in Dublin. For some years he conducted a chemist's business in Bride Street, Kildare.

Dr. John McMurray, ex-Mayor of Bootle, Lancashire, who died recently, served his apprenticeship to pharmacy with S. Connor & Son, Newry, afterwards qualifying as a medical practitioner. He was a native of Warrenpoint, co. Down.

An American named Carl W. Thorpe was found in his bedroom at Londonderry dead from poisoning, and his wife, who was then in a dying state, succumbed a few minutes later. Thorpe, who described himself as a "chiropractor," arrived in Londonderry about six months ago, and established a practice. His wife, also an American, aged 22, joined him a short time ago. A packet of cyanide of potassium and some glasses were found on a table in the bedroom. At the inquest on September 19 a verdict of "Death from poison by cyanide of potassium was returned."

Belfast

At the Police Court on September 13, George W. Hawthorne, Ph.C., Springfield Road, was prosecuted for keeping, selling and exposing for sale intoxicating liquor before 10 a.m. on August 15. Mr. Tughan, who defended, promised that his client would not offend again, and, seeing that the case was the first of its kind, the Bench ordered that the defendant should pay costs. He was cautioned against any further offence.

A meeting of the Executive Committee of the Pharmacists of Northern Ireland, which was appointed in 1921, was held on September 12, in the rooms of the Chemists' and Druggists' Society of Ireland, Belfast. A small deputation was appointed to wait on the Minister of Home Affairs to ascertain on what lines the Government proposed to act, so as to enable a basis for a constructive policy on the part of the trade to be arrived at. This committee is not that one appointed at the trade meeting in Belfast, on September 6, so that a certain amount of confusion prevails in regard to the matter.

At the Recorder's Court on September 13, Violet Tearle, professionally known as Nurse Gaw, was tried on an indictment charging her with having administered a noxious drug to Elizabeth Wright, a domestic servant, for an unlawful purpose. Elizabeth Wright was also indicted, and pleaded guilty to taking the drug. Dr. A. A. Ferguson said he knew nothing against the character of the nurse. Questioned as to her possession of ergot, witness said it would be an ordinary thing for a nurse to have, as she could administer it without a doctor. The jury disagreed, and the case was sent on to the Assizes. On the following day the girl Wright was sentenced by the Recorder to nine months' imprisonment, the Judge stating that he would make no comment on the case, as the other woman had still to be tried.

Cork

At a recent meeting of the North Infirmary Committee, Cork, Dr. J. M. O'Donovan, pathologist, reported that he had made personal application to the strike committee for permission to remove hospital equipment for the treatment of diabetes and had been refused.

The "Cork Examiner," in a recent issue, commenting on the present sittings of the Irish Free State Fiscal Policy Committee, stated:—"While English manufactured dyes were admitted duty free into Ireland last year they now pay 22 per cent. tariff. Thus, Irish textile manufacturers are taxed for the protection of a non-existent industry. We do not know what views exactly the Retail Drug Association may have put before the Fiscal Committee, but it is reasonable to assume that they seek the removal of some of the restrictions and duties put on to protect the British chemical industry."

Dublin

The manager of a large wholesale and retail chemists' establishment in Dublin, in the course of a recent interview, said that the shipping strike and the strike amongst the wholesale druggists' assistants were undoubtedly seriously inconveniencing the trade in Ireland. This position was further complicated by the Customs situation, as their only source of supply was by parcel post, or the chartered ships. The confusion and congestion arising from these causes created a serious amount of delay in the delivery of parcels, especially those containing chemicals in which spirits were used.

Boileau & Boyd, Ltd., writing to the Clerk of the Dublin Board of Guardians, point out that the statement made by a member of the Irish Transport and General Workers' Union, that they are unable to execute orders, is inaccurate. They have made deliveries punctually for many weeks, despite the labour disputes, and hope to continue to do so. The question as to whether those who deliver the goods are union or non-union labour does not arise. The Clerk of the Dublin Union asked a permit from the strikers for drugs to be delivered to the workhouse. A strikers' deputation suggested that the Board should obtain supplies from Liverpool between now and the termination of the contract at the end of September. No action was taken.—It has been stated on behalf of the Strike and Lock-out Committee, in a review of events leading to the trouble, that the men had been willing to work, but had not been allowed by the Wholesale Druggists' Association to do so. The question of wages had entered into the struggle, as the Association gave notice of a reduction, dated August 20.

Chemists' Golfing Events

A golf match between pharmaceutical chemists and registered druggists took place on September 12, on the Heleu's Bay links, near Belfast. A stroke competition was played, and the results were: (1) Mr. James Macauley, R.D., 92-17=75 net; (2) Mr. A. Morris, M.P.S.I., 92-14=78 net.

The Edinburgh Chemists' Golf Club held a competition over Longniddry golf course on September 12. The chief attraction was the prize presented by S. Maw, Son & Sons, Ltd., which was won by Mr. J. W. Brown. The first Club prize was won by Mr. M. Stoddart. The three other Club prizes were tied for by Messrs. E. Brindle, D. McLaren, and W. J. Jack. The next competition will be held at Cammo golf course on October 3.

The return golf match between Sunderland and South Shields was played on the Seaham Harbour course on September 12, and resulted in a win for Sunderland, who, for the two matches, lead by eight to five. The scores in the second match were as follow:—

Sunderland			South Shields		
R. Thursfield	...	1	S. Darke	...	0
F. Harrison	...	0	W. P. Mason	...	1
R. Anderson	...	0	E. Michelson	...	1
J. G. Harrison	...	1	J. A. Carr	...	0
T. Armstrong	...	1	T. B. Rowell	...	0
F. Armstrong	...	0	C. D. Mason	...	1
T. Crowe	...	1	R. Armstrong	...	0
4			3		

The members of the Manchester Pharmaceutical Golfing Society were not out in their usual numbers to play for Mr. J. H. Blyton's prize at Withington on September 12, owing to the downpour of rain in the early part of the afternoon. Those who turned up were rewarded by a fine and sunny afternoon. Play commenced soon after three o'clock, and some good scores were returned. Mr. J. A. Collins, with a score of 74, was the winner of the prize, and Mr. R. G. Edwards, with a net score of 76, won the Society's prize. The leading scores were as follow:—

J. A. Collins	74—Scr.=74	T. Miller	... 89—10=79
R. G. Edwards	86—10=76	H. A. Travis	... 104—24=80
E. S. Bury	... 91—14=77	J. H. Nidd	... 111—24=87
A. H. Turner	... 90—12=78	J. S. Breeze	... 108—16=92

Pharmaceutical Society of Ireland

Council-meeting

THE monthly meeting of the Council was held on September 11, at 67 Lower Mount Street, Dublin. Dr. A. J. Barnes, President, was in the chair, and the following members were also present:—Mr. R. Blair (Vice-President), Dr. J. A. Walsh, Dr. J. A. Mitchell, Messrs. James Michie, James A. Doyle, F. J. Fitzpatrick, Michael Ryan, Andrew Wilson, Samuel Suffern, and Fred Storey.

Messrs. Bingham, Culbert, Hanna and Connor, J.P., sent apologies for non-attendance.

THE NATIONAL UNIVERSITY OF IRELAND

The Council proceeded to consider the following letter from the Acting Registrar of the National University of Ireland, which was submitted to the August meeting:—

The Senate at a recent meeting had under consideration your letter of May 29, and directed me to inquire whether your Preliminary Examination was approved by the General Medical Council.

The PRESIDENT: We are just where we were.

Mr. MICHIE: The examination is not recognised by the General Medical Council at any rate.

The REGISTRAR (Mr. A. T. Ferrall): The question put to the University was this:—If the Council raised the standard of the Preliminary Examination to that required by the General Medical Council would they accept it?

The PRESIDENT: Submit the regulations of the Preliminary and ask them will they accept them as they stand.

The REGISTRAR said that years ago the General Medical Council accepted the Society's Preliminary examination *pro tanto*—it was accepted as far as it went. The candidate who passed the Society's Preliminary examination had to put in an extra examination somewhere else. But the General Medical Council ceased to recognise the Society's examination even to that extent.

Mr. STOREY: Ask the General Medical Council again, and get an answer from them.

The REGISTRAR was directed to write to the General Medical Council asking if the Council will accept the Society's Preliminary examination as it stands, as so many of the Society's Licentiates are now going in for medicine, and stating that the Council has reason to believe that, if this is done, licensing bodies will accept it.

CHANGES OF ADDRESS

The following wrote notifying changes of address:—

Mr. J. Finlay, Ph.C., to 22 John's Avenue, Hendon, London, N.W.4; Mr. James A. Hogg, R.D., to 109 Hamilton Road, Bangor, co. Down; Mr. James Cotton, R.D., to 28 Upper Newtownards Road, Belfast; and Mr. Samuel Carson, R.D., to Ravenhill Road, Belfast.

PRELIMINARY REGISTRATION

The following submitted certificates from the Intermediate Education Board and were admitted to Preliminary registration:—

Miss Barbara Potts, The Diamond, Clones; Mr. George H. Shaw, Cumberland Street, Birr, Offaly; and Mr. John O'Brien, c/o Mr. W. Knightly, 35 Lower Castle Street, Tralee.

DEATH

The REGISTRAR submitted a certificate of the death of Mr. Maunsell Bleakley, M.P.S.I., late of 5 Hargrave Terrace, Terenure Road, co. Dublin.

ELECTIONS AND NOMINATIONS

The following were elected members of the Society:—

Miss Eveline Hoy, Ph.C., 9 Howard Terrace, Dungannon, co. Tyrone; Mr. Wm. Frederick Jackson, Ph.C., 3 Church Street, Cavan; Mr. George Burton Johnston, Ph.C., 9 Diamond, Coleraine; and Mr. J. T. Herbert Orr, Ph.C., The Manse, Beech Corner, Castleblayney.

SCRUTINEERS OF THE BALLOT

On the motion of the President, seconded by Mr. Storey, Mr. James A. Doyle and Mr. Michael Ryan were appointed scrutineers of the ballot.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

SHOREHAM PHARMACY, LTD. (P.C.).—Capital £1,000. Objects: To take over the drug business carried on at 17 East Street, Shoreham-by-Sea. The first directors are: W. Wadsworth and Mrs. M. L. Wadsworth. R.O.: 17 East Street, Shoreham-by-Sea.

H. P. REES, LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of chemists, druggists, drysalts, oil and colourmen, etc. The first directors are:—H. P. Rees, 26 Larkhill Place, Clubmoor, Liverpool, chemist; and H. Green. R.O.: 26 Larkhill Place, Clubmoor, Liverpool.

WILLIAM GREEN (STOURPORT), LTD. (P.C.).—Capital £500. Objects: To acquire the business carried on by W. Green at High Street and York Street, Stourport, Worcs., and to carry on the business of chemists, druggists, drysalts, oil and colourmen, etc. The directors are: W. Green and Teresa E. Green, 32 High Street, Stourport. R.O.: 1 York Street, Stourport.

ROBERT INGHAM, CLARK & Co. (SCOTLAND), LTD. (P.C.).—Capital £20,500. Objects: To take over the business of manufacturers of paint, enamel and varnish carried on by P. G. Dowie and H. Smith at Renfrew, Scotland, as Dowie & Smith, and to carry on the business of manufacturers of and dealers in chemical, industrial and other preparations and articles, anti-friction greases and anti-fouling compositions, paint and colour grinders, etc. The directors are: R. H. I. Clark, West Glen, Tighnabruach, Argyle; P. G. Dowie, Broomley, Bridge of Weir; H. Smith, Innesfallen, Milngavie; and G. F. Clark, West Ham Abbey, Stratford, London, E.15.

THE SALUS Co., LTD., York Road, London, N.1, is the new name of Hacars, Ltd., adopted with permission of the Board of Trade.

STERNS, LTD.—Mr. H. Bell Thompson, general manager of Sterns, Ltd., lubricant manufacturers, has been appointed to a seat on the board of directors.

HENRY HODDER & Co., LTD.—The report for the year ended June 30 shows that the gross profit is £42,000, compared with £45,000, and the net profit £11,500, against £12,600. The dividend is 15 per cent. for the fourth time running, in spite of the increase in the capital by the funding of reserves in the autumn of 1921. The appropriation to reserve is unchanged at £5,000, and makes the total of that fund £14,000, and the carry-over at £12,400 is £700 less than the sum brought in. Stocks are slightly lower at £32,800.

Business Changes

MR. G. H. WILD, Ph.C., will shortly open a pharmacy at 3 Sidmouth Street, Seaton, Devon.

POLLARD & RAMAGE, chemists, have opened a pharmacy at 81a High Street, Newport, Isle of Wight.

MR. R. C. WILLIAMS, chemist and druggist, has purchased the business of Mr. J. P. Hawley, chemist and druggist, Padstow.

PIQUETS, chemists, 11 Halkett Place, St. Helier, have taken over the business of the late Mr. E. T. Adams, chemist and druggist, 53 King Street, in that town.

MR. C. H. JAMES, chemist and druggist, formerly manager of the Norwood, London, S.E., branch of Parke's Drug Stores, Ltd., is opening a business at Oldfield Park, Bath.

MR. F. G. BRICE, chemist and druggist, late of 46 Hamilton Road, Felixstowe, has purchased the business of Mr. C. F. Hitchen, chemist and druggist, 20 High Street, Uxbridge.

Bankruptcy Reports

Re David White, 157 Uxbridge Road, Hanwell, chemist and druggist.—The receiving order in this matter was made on August 24 on debtor's own petition. The statement of affairs shows liabilities of £2,264 18s. 3d., while the assets are estimated at £683 4s. 10d., from which preferential claims of £74 13s. 8d. have to be deducted, leaving net assets of £608 11s. 2d., or a deficiency of £1,656 7s. 1d. Debtor attributes his failure to lack of capital, losses whilst acting as sub-postmaster at three sub-post offices, and high rates of interest on money borrowed from moneylenders. It appears that he commenced business as a chemist in October 1900 at 193 Borough High Street with £175 capital, of which £75 was borrowed, and since repaid. Four years later he removed to 197 Borough High Street, and in March 1902 he purchased for £150 the lease, fixtures, etc., of another chemist's business at 41 Clerkenwell Green, E.C., being shortly afterwards appointed sub-postmaster. He discontinued the chemist's branch of this business in 1913, but continued the post-office until February 9 last, when he sold the lease, fixtures, etc., to a new tenant for £300. In September 1904 he purchased a chemist's business at 344 Mare Street, Hackney, for £61, but eventually sold it at a loss. Debtor also states that in February 1914 he purchased for about £750 the lease, stock, fixtures and fittings of his present business of a chemist, which he has carried on under the name of Rippon's Pharmacy. He paid £600 of the purchase money at the time with money borrowed and since repaid, and the balance by instalments. In July 1919 he purchased the premises for £500 with money advanced by the bank, and in March 1921 he removed the stock from 187 Borough High Street to his present business premises. The following are among the creditors:—Butler & Crispe, £185; A. Berton, Ltd., £20; the British Drug Houses, Ltd., £20; A. H. Cox & Co., Ltd., £10; Dakin Bros., Ltd., £120; Evans Sons Lescher & Webb, Ltd., £30; E. G. Hughes, Ltd., £10; Ernest Jackson & Co., Ltd., £35; J. Morgan Richards & Son, Ltd., £15; Meggeson & Co., Ltd., £30; Pepsodent Co., £10; Palmolive Co., £10; Wright, Layman & Umney, Ltd., £75; Wyleys, Ltd., £25.

Ideas

We invite contributions to this section.

Hot-water bottles vary much in quality, and the chemist who is building up his reputation on "quality" will do well to buy only from a maker who is prepared to give a liberal guarantee with his goods. Having fixed up a reliable source of supply, the selling talk should then be concentrated on the advantages to be obtained by paying a few extra pence for the best bottles—more rubber, reinforced seams, improved stopper, etc.—and their ability to outlive several of the cheaper makes.

* * * *

A window show with a neatly written card mentioning the usefulness of a hot-water bottle, not only for heating the bed on "nippy" nights, but also as a comfort for aches and pains, colds, rheumatism, cramps, chilblains, etc. Suggestions of this kind, while bringing in customers for hot-water bottles, open up the field for the sale of a cough mixture, embrocation, or other remedy.—*H. E. K.* (10/9).

* * * *

The latest proposals to use cotton wool instead of brushes for cleaning the teeth would seem to call for a cheap form of finger stall which could be used for the purpose. Little cotton stalls to cover the first joint of the index finger could probably be woven in quantity at a cheap rate. One or two of these could be used daily and afterwards thrown away. The stalls would serve for applying dentifrice or for gum friction, now so popularly recommended by dentists.—*J. C. B.* (31/8).

Practical Notes and Formulas

Temperatures under this heading are on the Centigrade Scale

VIOLET SACHET

Benzoin, in coarse powder	...	...	2 oz.
Orris root, powder	...	...	20 oz.
Musk ketone	...	...	15 gr.
Vanillin	...	...	35 gr.
Coumarin	...	...	20 gr.
Oil of rose, synthetic	...	...	35 min.
Bran	...	...	2 oz.
Ionone 100 per cent.	...	...	30 min.

VERMIN DESTROYERS

The utility of barium salts for rat extermination is the subject of Bulletin No. 915 of the United States Department of Agriculture. The lethal doses of barium compounds for rats are as follows:—

	Per kilo.
Barium chloride (subcutaneously)	45 to 89 mgm.
" " (by stomach tube)	350 to 535 mgm.
Barium carbonate (by mouth)	630 to 750 mgm.

On the basis of the barium content the carbonate administered by the mouth is about two-thirds as active as the chloride. The average intake of food by hungry white rats (poisoned or unpoisoned) was about one-hundredth of their body weight. On this basis, a twenty per cent. concentration of barium carbonate in the rat bait used was found to be efficient, the rat having to eat only one-third an average meal to ingest a fatal dose and die within the first twenty-four hours. The results of both pharmacological and feeding tests show, however, "that it would not seem advisable always to expect 100 per cent. mortality from the administration of barium carbonate, in proper amount, to rats." Further: "In addition, the rapid consumption of food would occasionally seem very important, since a few rats fairly soon gave evidence of discomfort, due presumably to the relatively quick solution of the barium carbonate by the acid of the stomach, with consequent irritation." Soft mealy food, consisting of 70 per cent. meal (peanut), 10 per cent. milk powder, and 20 per cent. lard, was usually consumed faster, more eaten, and less scattered, than other types of diet such as grain or dog biscuit. The bait is toxic in varying degrees to other animals. Of other barium compounds tried, barium chromate was non-toxic even in doses of 2,000 mgm. per kilo. Barium soap was fairly toxic (approximately equal to barium carbonate), but hydrolysis with moisture would impart a disagreeable taste and nullify the advantage of quicker mobilisation of barium by hydrolysis in the stomach. In Bulletin No. 1,023 are given the results of an investigation of the minimum amount of strychnine required to kill rats. These show that the rat is exceedingly resistant to strychnine, the limit of tolerance with *Mus Norvegicus* (the brown rat) being 3 to 3.5 mgm. of strychnine sulphate per kilo. of body weight when injected subcutaneously. The "practically certain" lethal dose by the mouth is about eight times this amount, being 25.6 to 32 mgm. of strychnine sulphate per kilo. The rat must therefore be overwhelmed by the drug, otherwise it will probably survive. Mice are much more susceptible to strychnine than rats, being apparently three or four times easier to poison than rats. The report states that it should be possible to obtain good results with bait containing 0.75 per cent. of alkaloid (one part in 133 parts of bait), "after the factors of rapid consumption and palatability are solved." The use of strychnine sulphate combined with diatomaceous earth (so-called tasteless preparations of strychnine) reduces toxicity more than 50 per cent.

STATISTICS OF CANCER.—A circular (No. 426) issued by the Ministry of Health to local authorities in England and Wales draws attention, by means of statistics, to the increasing prevalence of cancer, and makes suggestions as to its early diagnosis and the precautions that may be taken by ordinary persons to reduce liability to incurring it.

Glasgow Chemists' Exhibition

As the second city of the Empire, Glasgow forms an eminently suitable place in which to hold a chemists' exhibition. If one may judge from the enthusiasm of the opening ceremony and the number of visitors on the first few days, there would appear to be no falling off in the popularity of such functions. St. Andrew's Hall forms a fitting home for this latest activity, not only on account of its size, but also thanks to its convenient situation. Those who imagined that this would be primarily a Scottish show are mistaken, for English houses are well represented, and are being given a reception and a hospitality truly Scottish in its warmth. Organised by the "British and Colonial Pharmacist," the opening ceremony was performed on September 17 by Mr. Anthony McMillan, chairman of the Executive of the North British Branch, who drew a sketch of the progress of pharmacy during the past four decades, especially with reference to the delivery of goods and the personnel of travellers. His speech was enlivened by a good deal of humour, which was much enjoyed. Mr. Guthrie, Clydebank, moved a vote of thanks to Mr. McMillan, which was seconded by Mr. Rutherford Hill. Among others present we noticed Messrs. Harley, Perth; Forbes, Perth; Hunter, Aberdeen; Reith, Culter; Shiach Kitchen, Glasgow; Raffan, Stirling; Meldrum, Ayr; Milne, Dundee; and Ritchie, Montrose. On the opening day a private and complimentary lunch was given to Mr. McMillan, and about thirty-five chemists were present. The exhibition remains open until September 21.

R. H. ALLEN & Co. specialise in Fifty Handy Sellers for chemists, and most of them are of the "own-name" variety. Moreover, some special style of packing will be allotted to a chemist and not repeated in his own district. Among the many lines thus displayed we noticed anti-catarrah snuff, anti-catarrah salve, Rosebalm (with which goes a chromatically striking and illuminable window show), bunion ointment, Allenco embrocation, Electricure corn pencils, and medicated socks.

AMAMI, LTD., have a truly decorative display of their well-known toilet series—face powders and creams, soaps and perfumes. But perhaps the best-known line is the Amami shampoo. Amami, Ltd., believe in co-operating with the retailer in every possible way, and will supply advertising matter on a generous scale.

AYRTON, SAUNDERS & Co., LTD., claim that they can supply the pharmacist with any, or almost any, normal requirement. There is a large and attractive display of the "own-name" proprietaries, including every toilet requisite for either sex. A large section is devoted to drugs and chemicals and galenicals. There is a fine display of packed olive oil, and the sample we examined seemed of first-rate quality. Surgical instruments and sundries filled yet another section of the stand, and there was a goodly array of wools, lints, bandages, plasters, and gauzes.

BEATSON, CLARK & Co., LTD., are making a large display of dispensing bottles, the manufacture of which is their speciality. The accuracy of volume and extreme smoothness are of particular importance to chemists. The colour, too, is a special feature. The pharmacist who insists upon having bottles of the first quality will find his needs readily supplied by the company. Among other important lines are shop rounds and ointment jars.

T. F. BRISTOW & Co., LTD., are again to the fore with a truly elegant and fascinating display of toilet soaps. Prominence is given to their well-known "Georgian" series, packed in brightly-coloured wrappers and boxes and delightfully scented. The "Georgian" series includes not only soap, however, but a great number of toilet articles, as face powders and creams, shaving soaps, tooth pastes, and so forth. Messrs. Bristow make a speciality of medicated soaps, containing ichthyol, and they recommend in particular their ichthyol shaving stick as a safeguard against skin trouble. Perfumes, too, are displayed in considerable variety, and the reasonable prices are particularly to be noted.

W. J. BUSH & Co., LTD., make an artistic display of Potter & Moore's lavender water, and it is noticeable

that this popular perfume is put up in an unusually wide range of bottles. The company is also showing their Devouetta violets, Devouetta lilies, and equally well known Oriental poppy, tastefully packed in "wickers" as well as in ordinary bottles. Messrs. Bush also show a wide range of essential oils, intended for the manufacture of perfumes. In these they specialise, and claim that an essence of any odour can be supplied. A large display of vanillin, which they manufacture, is on view.

COCKBURN & Co., LTD., are prominently displaying the motto, "Everything a Chemist Sells." It is, of course, not to be expected that they display "everything," and they are showing only representative lines, chiefly in packed goods, toilet articles and sundries. In particular we noted some good hair-brushes at moderate prices. Drugs and preparations of all kinds can be supplied by this house, and their motto, though making a large claim, appears to be justified. Special attention is called to their Little Victor inhaler for catarrh.

A. F. CORBETT & Co. are specialists in show cases, and their leading line is the all-glass show case. This is solid, strong and handsome in appearance. Such a variety of fittings were on view—wooden stands for counter or window, tree-shaped stands for sponges, tooth-brush stands and cases, etc.—that whatever a chemist's requirements in this direction are, they can be met by this firm.

ARTHUR H. COX & Co., LTD., are showing, on a prominently-situated stand, a full range of their lines. Chief among these are "own-name" preparations, especially compressed tablets of every description. In addition we noted such things as capsicum wool, soaps and perfumes, tooth pastes, Midinette face powder, solid eau de Cologne, and lozenges. In the last-named category particular attention is directed to Chestnuts for coughs and colds.

CRESSWELL BROS., LTD., display an enormous number of sponges, from the size of a walnut to that of a tea-tray. The qualities shown are as varied as the sizes. There are the cheaper as well as the more expensive varieties of Turkey sponge on view, and there is the rough, coarse and cheap sponge used to clean motor-cars and other vehicles, as well as the ordinary sponge. Messrs. Cresswell are also showing a good quality of rubber sponge, known as the Ablutonic, which, if one may judge from the appearance and the "feel," is a thoroughly satisfactory article. Sponges in such great variety and numbers would have been of considerable interest to the general public.

DOLS & Co., LTD., are the makers of Dols' Volatilise flannel, made of pure wool. It is asserted that this substance gives off vapours which exert a curative effect in the case of such disorders as lumbago, rheumatism, neuralgia, bronchitis, and sore throat. It is put up in all sorts of shapes and sizes, from pieces to wrap round the finger to knee-caps, body belts, and even waistcoats. It is made, also, into underclothing and similar wear.

DUBARRY ET CIE are showing a wide range of their high-class toilet preparations. Among those which were prominent we remarked various soaps, bath crystals in a great variety of colours and odours, shampoo powders, face creams and powders, toilet oatmeal and talcum powders. Lippax, a lip-salve, is attractively scented and prettily "got up." There were also a number of perfumes already well known to the pharmacist, such as The Blue Lagoon, Golden Morn, and The Heart of a Rose. In Poudre Dubarry the aim has been to supply a face powder of the highest class. Compact face powders are packed with mirror and puff, and refills are obtainable.

J. C. ENO, LTD., have again a beautiful stand. Artificial fruit, chiefly large and numerous bunches of grapes, are the main feature of a striking show. Dummy cartons, brightly-painted showcards, and various advertising novelties are the other components of the display—together, of course, with actual bottles of Eno's Fruit Salt. Prominence is given to the small size, and it is felt that every chemist in the country, whatever class of business he does, can handle this size with advantage.

Messrs. Eno believe in enlisting the goodwill of the retailer, and are willing to send attractive advertising material for window-shows.

THE ERASMIC CO., LTD., call particular attention to their black and gold series, which includes all the usual toilet articles—from shaving sticks to compact powder and from dental cream to lip sticks. Peerless Erasmic soap is now made in a new and smaller size.

FASSETT & JOHNSON, LTD., have a big display of the lines for which they hold the British agency—as, for example, Mulsified Cocoa Nut Oil, Angier's Emulsion, Sloane's Liniment, California Syrup of Figs, Mennen's Borated Talcum, and Diamond Dyes. They are showing also Seabury & Johnson's plasters and Mead's strapping, as well as a full range of cotton wools, lints, bandages and dressings.

GENATOSAN, LTD., display their three leading lines, Sanatogen, Formamint and Genasprin, in a manner which cannot fail to catch the visitor's eye. Window-displays will be arranged for chemists whenever desired, goods being given in exchange for the window space. Some new advertising material has been brought out by the company and may be had on application. The pre-eminence of their Formamint is insisted upon, and the same remark applies to Genasprin. Messrs. Genatosan specialise in de-toxicated vaccines, and of these a large number are displayed.

D. & W. GIBBS, LTD., make a judicious display of their numerous proprietary lines. Naturally, Gibbs' dentifrice is very much to the fore, and its existence is advertised with the aid of giant dummies cunningly arranged. Actual tins, in various sizes, together with refills, are also shown. Gibbs' cold cream soap is another popular line, which is conspicuously displayed. This is now packed, *inter alia*, in handkerchief and glove boxes—a happy idea, which should increase the sale of the soap. Among newer lines are Daffodil Dew and Lavender Dew toilet soaps.

HARKNESS, BEAUMONT & Co. specialise in extract of malt and its mixtures, ready packed. They show also Lactomaltine, which is malt extract mixed with milk and cream. Drugs and packed goods are also to be seen in considerable variety. Cascara and its preparations are among other lines to which the firm have paid particular attention.

MR. T. HARLEY has a striking display of Rodine in all sizes, as well as a specimen window-show, illustrating a rat climbing on to a tea-table, while a second rat consumes a loaf of bread. There is now a large sale for Rodine, and advertising matter is sent free and freely to any pharmacist.

HORLICK'S MALTED MILK CO. have again an attractive stand, from which the chemist may pick up hints as to how best to dress his windows with this class of goods. Much advertising material is shown, and the visitor is invited to taste the prepared milk, which is stated to be rich in vitamins, and is served both hot and cold.

THE INTERNATIONAL CHEMICAL CO., LTD., are showing their well-known bisurated magnesia in powder and tablets, as well as their Blood Iron Phosphate, a remedy as well known as the former. Their display also includes Lavona hair tonic, and a face cream of French origin, known as Cire Aseptine. The company offers special terms in exchange for a window or counter display and demonstrate how their lines can be handled by the chemist with substantial profit to himself.

KEENE'S ONE NIGHT CORN CURE, LTD., have an effective show of their famous cure. Much advertising matter is also on view, and this is at the disposal of the retailer; it is striking and original and is bound to attract the public if placed in the shop-window. Another line which is now being shown is a tablet for dyspepsia and flatulence and called Charco-Peptic Digestive Tablets.

KOLYNOS, INC., have again arranged an artistic stand at considerable expense—of time, money and ingenuity. Advertising novelties, which are a notable feature of this show, include tasteful posters, realistic "dummies," humorous and artistic figures and show-cards, and striking "cut-outs." In addition to these means of stimulating sales, chemists may for the asking receive a

liberal supply of free samples for judicious distribution. In order to encourage "buying direct" Messrs. Kolynos offer bonus terms in return for a window-show.

MAISONNEUVE & Co. are the agents for René, Frank & Co., and are displaying toilet sprays and powder bowls of the highest class. The powder bowls are specially beautiful, being in all colours and many attractive shapes.

MACSONS, LTD., are showing, among other appliances, the Kute wrist strap, a combination of rubber and a strap which is capable of affording any degree of tension. They also show the Limpet rupture appliance, suitable for right, left, or double hernia. It is not a steel truss, but an appliance more in the nature of a belt. Other lines displayed are Macson's embrocation, Glycerine-Lemon-and-Honey (for coughs and colds), and compressed tablets in great variety.

PEARSON & SAY are showing puffs and powder-bowls in all sizes and prices, though the higher-class trade is their speciality. All the goods displayed are very attractive in appearance and make an instant appeal. Puffs on handles are a leading line, many sizes and qualities being shown. Many of the powder-bowls are hand painted.

THE PEPSODENT CO. call particular attention to the small size of Pepsodent tooth paste. Various selling aids are displayed, and it is made clear that the firm is always willing and eager to co-operate with the retailer in increasing sales. To this end many attractive show-cards and similar forms of advertisement have been designed.

THE PROPRIETARY AGENCIES, LTD., are showing a number of Bayer products, for which they hold the agency in the United Kingdom. They are displaying also Phillips' Milk of Magnesia, Danderine, Tiz, and Jacob's Oil. Among the Bayer products we saw specimens of jothion, guycose, aspirin-Bayer, luminal, protargol, mesotan, somatose, helmitol, cycloform, afridol, and aristol.

HENRY C. QUELCH & Co., have a display of their toilet lines. Particularly prominent is the Swansdown powder, for which they hold the British agency, as well as the Cutex preparations, which, we understand, are selling well. There is also a display of Nuctone.

J. H. RAMSAY, PH.C., Glasgow, has a fine display of drugs and galenicals, including cod-liver oil, malt extract, syrups, tinctures, concentrated waters, bismuth carb. and bromides. The appearance of all these is distinctly good.

THE RED BAND CHEMICAL CO., Edinburgh, are displaying "Red Band" magnesia for dyspepsia, and making a special offer of interest to the pharmacist.

E. RIMMEL & Co., LTD., have two stands close together, and both are very artistically arranged. One saw the well-known lines like Rimmel's Toilet Vinegar and Toilet Oatmeal, as well as a number of relatively new lines. Especially prominent was Hebe Cream, beautifully packed in dark blue glass pots with gilt lid, and Eau Velvete, for making red hands white. Among perfumes special attention was directed to La Rêve de Rimmel—something new and subtle if not "unique" in odours—puffs, soaps, bath tablets, creams, powders, and many other toilet adjuncts.

J. W. ROYLE, LTD., have a well-arranged display of natural mineral waters. Not only are the better-known being shown, but the less well-known—some fifty varieties in all. Some of the waters, like Carlsbad and Ems can be had in solid form, and some, like Mont Dore, in pastilles. A special point is made of the company's willingness to supply in small quantities.

SALTRATES, LTD., have again chosen a prominent position for their artistic stand. Their chief lines, of which a striking display has been made, are Reudel Bath Saltrates and Alkia Saltrates. Both articles are now popular sellers, and this fact, combined with the margin of profit now allowed, leads the makers to believe that the lines are worth handling by the pharmacist, and even to be worth "pushing." There are shown also "Nemolin" and "Kal-sel."

A. & R. SCOTT, LTD., are displaying one line only—Scott's M.O.F. We were told that this food is not only

excellent for infants, but anyone may take it with advantage, especially the aged.

SISTER LAURA'S FOOD CO. are showing a well-arranged display of this food. This cereal food, which has only to be mixed with milk, is packed in tins to retail at 1s. 3d. and 3s.

J. M. SMITH & CO., LTD., specialise in disinfectants, and of their various proprietaries they have made a fine show. They call special attention to their lysol. They make, in addition to lysol, an antiseptic fluid, which is sold in cans of various sizes from a pint upwards—an inexpensive and useful line. Carbolic and other disinfectant powders figure prominently. Much attention is paid to the manufacture of tooth powders and tooth pastes. Carbolic tooth powder is a line for which this house has long been famous, and which is still a first-class seller; this may be had as an "own-name" proprietary. Last, but not least, are the tooth pastes, all of which may be had as the chemist's own proprietary. We were shown a number of cartons; the pharmacist may choose one, and the one chosen is not supplied to any other chemist in his town.

T. & H. SMITH, LTD., Glasgow, Edinburgh, and London, have a stand which is, more than any other in the Exhibition, of interest to the pharmacist of a scientific turn of mind. They are showing beautiful specimens of fine drugs and rare chemical compounds. We noticed, for example, some fine crystals of caffeine-triiodide in long, dark blue needles; it is a remedy for gout and rheumatism. The dose is 1 to 3 grains (in pills). In addition there were splendid specimens of caffeine, codein, aloin, scammonin, podophyllin, picropodophyllin, scale preparations, chloroform, etc. Among the packed lines shown are lysol, olive oil, and Duplex embrocation.

THERMOGENE CO., LTD., have arranged an attractive show of the various sizes of their well-known Thermogene wool. Advertising matter is also shown, and this is sent gratis on application.

THE UNITED GLASS BOTTLE MANUFACTURERS, LTD., are making a large display of wide-mouthed amber bottles. They claim that these are the cheapest and best obtainable. They are showing, too, a wide range of tablet bottles of high quality and low cost. In addition, there is a range of bottles for nearly every purpose connected with the packing of a chemist's own lines.

DE VILBISS & CO., LTD., have a comprehensive show of sprays, both for toilet and pharmaceutical purposes, and at all prices. Many of the toilet sprays are beautifully coloured and would make handsome adjuncts to any toilet table.

VISKAP, LTD., are displaying their bottle caps, which are now so well known that they do not call for lengthy description. The assistant in charge is eager to demonstrate, with actual caps in many colours, the advantages, uses, and economies of viscose caps, or Viskaps. They not only give a fine finish to bottles or jars, but they are airtight, and they take a polish. Not to use them, we were told, is to spoil the ship for a ha'porth of tar!

VIVAUDOU, ARLY & DELETTREZ are displaying a range of toilet preparations, chiefly in two series—the Mai d'Or and the Mavis. They include perfumes, soaps, bath tablets, talcum powder, face powders, compact powders and rouge, vanishing creams, manicure sets and appliances, and so forth. Window-show material, striking in design, is sent with the initial order (and afterwards on request). A large advertising campaign is being prepared, and chemists are warned to be ready to meet the public demand.

WRIGHT, LAYMAN & UMNEY, LTD., have a massive display of Wright's coal-tar soap, together with their coal-tar ointment. Other lines in evidence were Wright's coal-tar shampoo powders and shaving sticks. Bonus terms, enabling the pharmacist to increase his profits, were carefully explained to all interested visitors. Another side of the stand is devoted to a fine display of drugs and galenicals, for the high quality of which the company is well known. Still again there was a comprehensive display of "own-name packed" goods, both pharmaceutical and toilet.

Association Affairs

Belfast.—A meeting of the Committee of the North Irish Pharmacists' Association was held on September 13 in the offices of the Chemists' and Druggists' Society, Waring Street, Belfast, Mr. A. W. Mann in the chair. The business related chiefly to the forthcoming elections to the Pharmaceutical Council of Ireland, and it was decided to nominate Mr. John Adams, Ph.C., and Mr. Horatio Todd, Ph.C., as candidates.

Belfast.—A committee meeting of the Chemists' and Druggists' Society of Ireland was held at the rooms, 11 Waring Street, Belfast, on September 14. Mr. Fred Storey (President) occupied the chair. The following were present:—Messrs. Saml. Gibson, J.P., W. J. Rankin, S. Suffern, J. Long, C. Abernethy, J. D. Carse, R. A. Jamison, S. Nevin, T. J. Eglinton, S. McDowell, G. Johnston, R. Kells, J. Guthrie, E. Roberts. Mr. R. A. Jamison acted as secretary in the unavoidable absence of Mr. J. Moffett. Mr. Storey reported that he had attended a Conference at the Home Office at the request of the Minister of Home Affairs for Northern Ireland to represent the Chemists' and Druggists' Society of Ireland. The members had doubtless read the reports which had been published of that Conference by the different bodies represented. The Conference was strictly conversational. Mr. Megaw, K.C., M.P., Parliamentary Under-Secretary, who presided, said that any reports to the effect that he gave an undertaking not to interfere with the academic part of the Pharmaceutical Society's functions were wrong and misleading. The one important thing he did say definitely was that the Government would insist on having a body in the six counties over which they would have control, as they found that was absolutely necessary in administering some of the Acts. Mr. Storey stated he said, although he was representing the Chemists' and Druggists' Society of Ireland, he had not been sent there to express their views or put forward any scheme, but to hear what the Ministry had to say and to find out what was in their minds and report the result to his Society. He told Mr. Megaw that personally, and he was also sure his Society appreciated the fact that they were being consulted before anything was done, as they had bitter experience of the way the English Home Office brought in Bills and Regulations without consulting them, as illustrated by the Dangerous Drugs Act. The result of the Conference was that, having heard what the Ministry wanted, the members of the Conference were asked to send in statements from the association, and that the Minister or any of the officials would always be at their service. A discussion then took place, and various schemes were discussed. Mr. Storey said he thought the proper way would be to work out an agreed scheme in conjunction with the pharmaceutical chemists, but it was pointed out that there were three different sections of pharmaceutical chemists moving at present. The matter was left to the Law Committee. Mr. Storey reported that he and Mr. Suffern had attended a meeting of the Special Registered Druggists' Committee in Dublin, and a referendum was decided upon to be taken on the question: "Are you of the opinion that the Registered Druggist Examination should be discontinued?" If the answer is in the affirmative, "Are you prepared to leave it in the hands of the Council to formulate a scheme and see such scheme carried into effect?" This would be submitted to the solicitor of the Society beforehand. It was unanimously agreed to support Mr. Storey for re-election as their official candidate at the coming election to the Council. It was arranged that a general meeting of members be held at 3 p.m. on October 24.

Ealing.—The Ealing Pharmacists' Association will hold meetings this session in the Ealing Town Hall.

Preston.—The Preston Pharmacists' Association opened the session at the Bull and Royal Hotel on September 5. There was a fair attendance. When the business was concluded the President (Mr. G. F. Livesey) introduced several artists, who presented an enjoyable musical programme.

Pharmaceutical Botany

XXIII. Stems

In the previous article it was shown that the stem of a flowering plant such as stramonium is formed by continued growth of the primary axis and bud present in the seed. It is customary to regard such a stem as typical, and it is easy to understand how other forms are derived therefrom by adaptation. The erect stem of an annual herb is a compromise well suited to normal requirements. It affords rapid growth with minimum tissue expenditure, much of the mechanical support being derived from turgidity of succulent tissues. Other

factors, competition for light, perennation, excessive light, or lack of water, have given rise to the multitude of stem forms which make plants differ so greatly. This member is so extremely plastic that even closely allied individuals have quite different stem types (see below). The stem can be regarded as a carrier of leaves, its fundamental rôle being to place these in a position to absorb light for purposes of assimilation. The real distinguishing characteristic of a stem from a root is the presence of leaves in some form or other. A root never bears leaves. If scale leaves are present on an underground, root-like member, this must be a stem form (such as a rhizome, etc.). The extension of leaf surface in larger herbaceous plants calls for additional support in the form of fibrous mechanical tissue. The arrangement of these fibres in conjunction with xylem and phloem elements of the vascular bundles and/or in soft ground tissue often serves to identify species when flowers are not available. The disposal of these stem-strengthening tissues affords many interesting studies from a mechanical standpoint, as illustrating strong but economical girder arrangements. When competition for light is the governing factor in plant life the tendency is to persist year by year (perennate) and form taller and taller plants. This may lead (through shrubs) to self-supporting tree forms with continued growth of woody tissues, or to climbers utilising other plants for support. Initially the slow growth of a woody stem may be a handicap, but once this overtops its neighbours success is assured. In woods of close-growing trees, such as beech, the undergrowth, it

of most woody plants are in themselves proof against mild frosts, but hibernate after parting with their adult foliage leaves (these are termed deciduous, in comparison with the persistence of "evergreen" leaves over the winter). Resistant buds protected by scale leaves (Fig. 66) are formed in the angles between stem and leaf. Normally there is at least one bud formed in the "axil" of every leaf, but circumstances permit few of these to develop. Each bud is a branch axis crowded with young leaves in a resting or dormant condition. The type of branching depends upon the persistence of the primary bud of the branch. [Compare the straight or "monopodial" stem of pine, in which original bud persists with the widespread branching of oak where a lateral bud continues next year's growth.] A branch thus arises when a bud continues its growth. The place of insertion of a leaf is called a node, and the internodes (in Fig. 56 A) are formed by elongation of the axis between two successive leaves in the bud. The length of internode alters greatly the appearance of a plant. A single genus (like the buttercup) presents species having stems with long and short internode. Thus *Ranunculus lingua* has typical aerial stems three feet high, with leaves without stalks (or sessile). In *Ranunculus bulbosus* the stem retains its condensed character and remains underground

possessing long stalks to reach the light. The lily bulb (Fig. 67) remains even more bud-like, being purely a storage organ with leaves becoming fleshy owing to storage of food material. The corm (*Colchicum*) is a similar underground bud in which the enlarged stem acts as store, the leaves being protective scales. The ready adaptability of stems in taking on other functions accounts for the diversity of plant shapes. Thus vegetative propagation can be effected by aerial or underground stems called runners taking root at intervals. The branch is assimilatory in switch plants (*Broom*), changed into tendrils in *Bryony*, and a store for water in *Cacti*. Thorns are often metamorphosed branches, as in *Hawthorn* and *Gorse*.

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DANGEROUS DRUGS AGAIN.—The publication by THE CHEMIST AND DRUGGIST of a revised card on the Dangerous Drugs Acts and the Regulations serves to bring the information necessary up to date and in a form easily grasped and understood. Though it is only three years since this restrictive legislation became law, the changes and misreadings have been enormous. It is so easy for the best of us to make a slip and be mulcted in a vicious fine. This is not English legislation but Prussian, where "verboten" was wont to be burnt into every possible variety of human activity. The card summary is a very suitable form, and we have it hung up over our prescription desk so that we can refer to it quite easily. The old one was freely copied and imitated and given away. One thing is quite clear, the new card is a fine piece of detail work and does infinite credit to all engaged in its production; that it should be in every pharmacy goes without saying.—"The Script."



FIG. 64.—PLANT OF WOOD ANEMONE showing perennial underground stem or rhizome.

stem form (such as a rhizome, etc.). The extension of leaf surface in larger herbaceous plants calls for additional support in the form of fibrous mechanical tissue. The arrangement of these fibres in conjunction with xylem and phloem elements of the vascular bundles and/or in soft ground tissue often serves to identify species when flowers are not available. The disposal of these stem-strengthening tissues affords many interesting studies from a mechanical standpoint, as illustrating strong but economical girder arrangements. When competition for light is the governing factor in plant life the tendency is to persist year by year (perennate) and form taller and taller plants. This may lead (through shrubs) to self-supporting tree forms with continued growth of woody tissues, or to climbers utilising other plants for support. Initially the slow growth of a woody stem may be a handicap, but once this overtops its neighbours success is assured. In woods of close-growing trees, such as beech, the undergrowth, it



FIG. 65.—PART OF STEM OF POTATO bearing underground swollen lateral branches called tubers. The "eyes" are dormant buds.

will be observed, is killed by obscuration of light.

The evolution of climbing plants is easily understandable from the tendency of stems to elongate in shade or darkness. This is readily demonstrated by growing potato in dark, when stem two or three feet long will be formed in endeavour to reach light. The potato plant also affords an example of the effect of climatic conditions on stem development. Leaves and succulent stems cannot resist winter's frosts, and herbaceous perennials ordinarily persist as underground stems (or roots crowned with bud) filled with reserve food material. These may consist of stem-like rhizomes (Fig. 64) or only swollen portions of lateral branches (potato tubers, Fig. 65). In temperate climates the aerial branches

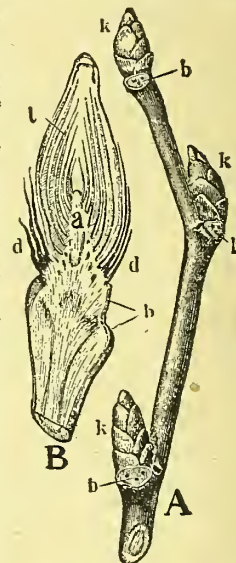


FIG. 66.—WINTER BRANCH OF ELM. A, shoot with buds (natural size); b, leaf scar and node; k, buds; B, bud in longitudinal section (x3); a, axis of bud; d, bud scales; l, leaves.

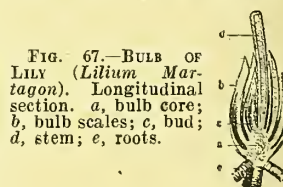


FIG. 67.—BULB OF LILY (*Lilium Martagon*). Longitudinal section. a, bulb core; b, bulb scales; c, bud; d, stem; e, roots.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of British patents can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Water-Soluble Oil.—A process for obtaining a water-soluble oil by mixing sulphonated unsaponified castor-oil with separately sulphonated unsaponified fatty oil or fixed oil, and treating the mixed oils with caustic alkali to saponify the sulphonated oils. (H. W. Hutton. 202,401.)

Ferric Hydroxide.—A process for the continuous production of iron hydroxide by electrolysis, using as electrolyte a neutral alkali salt in solution, such as sodium chloride, to which has been added a small quantity of a free acid or of a solution of an iron salt, the anode consisting of iron. (Waterloo Chemical Works, Ltd. 195,077.)

Veterinary Preparation.—A preparation for the inoculation of sheep against braxy, and as a remedy for quarter ill in cattle, prepared from garlic bulbs from which the skin is removed, whereupon the peeled sections are treated with spirit of turpentine for twenty-four hours, when the preparation is ready for immediate use. (W. H. Laidlaw. 202,500.)

Casein Glue.—A casein composition adapted for use as a glue or as a base for paints, consisting of:—

Casein	...	...	70 parts.
Sodium silicate	...	...	27.7 parts.
Camphor	...	...	0.1 part.
Sodium tungstate	...	...	0.25 part.

(New Zealand Co-operative Drug Co., Ltd. 187,200.)

Extraction of Oils.—A method of extracting about nine-tenths of the oils or fats from oleaginous vegetable matters with or without previous preparation. The matter is subjected to the action of less than one-half the solvent usually employed, the wetting of the matter being stopped before solution in free solvent occurs. The solvent in the cells, together with the oils or fats, is extracted under pressure. (Cellulose et Papiers Société de Recherches et d'Applications. 179,931.)

Aliphatic Arsenical Compounds.—Arsenious acid is dissolved in acetic anhydride; after solution has been effected, the temperature is raised to 180° C., yielding, after extraction with soda or dilute hydrochloric acid, a grey powder insoluble in most solvents, answering the formula (AsCH). This product is suspended in solution of sodium carbonate, and solution of "oxygenated water" added. On acidification with dilute hydrochloric acid a white powder is precipitated possessing the formula (AsCH)x. This product is suspended in solution 191,029.)

UNITED STATES

Bottle Attachment.—An attachment, the object of which is to prevent the liquid from running down the side of the bottle, comprising a strip of blotting paper and a strip of adhesive paper stuck on to one side of the blotter and having its ends projecting. One end is reduced, the other widened. The reduced end is stuck on the bottle neck with the strip of blotter and intermediate portion of the paper strip wrapped round the bottle, the end of the strip being stuck down. (L. L. Latham. U.S.P., 1,449,335.)

Rotary Toothbrush.—The handle comprises a tube closed at one end and internally threaded at the opposite end and a shell of substantially semi-cylindrical shape throughout a portion of its length, an annular portion at the inner end of the shell having external threads to engage the threads of the handle. A rotatable member is disposed centrally and longitudinally within the handle and protruding at one end beyond the closed end of the handle. A brush stem is rotatably mounted in the outer end of the shell and detachably connected at its inner end to the rotatable stem. (R. C. Faust. U.S.P. 1,450,542.)

Births

Notices for insertion in this column must be properly authenticated

MCMILLAN.—At Carrick View, St. Leonard's Road, Ayr, on September 12, the wife of George Arthur McMillan, chemist and druggist, of a daughter.

Marriages

AMOS—SOUTHERTON.—At the Parish Church, Quinton, Birmingham, on September 15, Carl Raymond Amos, M.P.S., to Dorothy, eldest daughter of Mr. A. Southerton.

GORDON—HILL.—At St. Columba's Church, Knightsbridge, London, S.W., on September 8, George Thomas Gordon, pharmacist, the London Hospital, to Olive E. G. Hill, Wilmorton, Derby.

SCOTT—MACKAY.—At the United Free Church, Inverkeithing, on September 5, Henry Johnston Scott, chemist and druggist, son of Councillor H. J. Scott, J.P., Pentland View, to Annie Margaret Gordon, only daughter of Lieutenant J. Mackay, R.N., Ivybank.

Golden Wedding

WELTON—SELLORS.—At St. James's Church, Bonsall, Derbyshire, on September 16, 1873, by the Rev. S. Blackburn, Henry Welton, chemist and druggist, Bishop Street, Coventry, eldest son of Charles Welton, Benton Green, Berksweil, to Mary, second daughter of the late Mr. Thomas Sellors, Cubley House, Bonsall, and granddaughter of George Allen, Riber Hall, Derbyshire.

Deaths

ENNESS.—On September 12, Mr. Walter Frederick Enness, chemist and druggist, 91 High Street, Wandsworth, London, S.W., aged fifty-seven (see p. 403).

FOULIS.—At 181 Ferry Road, Leith, on September 10, Mary Buckland, wife of the late Mr. John Foulis, manufacturing chemist, Musselburgh.

MILLER.—At a nursing home in Edinburgh, on September 16, Mr. Thomas Miller, chemist and druggist, 168 High Street, Portobello. Mr. Miller passed the Qualifying examination in 1886.

SHACKLOCK.—At a nursing home in Mansfield, on September 10, after a brief illness, Mr. Philip Joseph Shacklock, chemist and druggist and optician, Market Place, aged sixty-one. Mr. Shacklock had been in business in Mansfield, his native town, for thirty-four years, having succeeded the late Mr. Jackson, to whom he had been apprenticed. Mr. Shacklock was warden at St. John's Church for twelve years, and was at one time a town councillor. Cricket and bowls made a large claim upon his leisure, and he was also a golfer. As a young man he frequently played with the Mansfield Town and Wednesday Cricket Clubs, and was an enthusiastic member of the Mansfield Bowling Club for ten years, being its President at the time of his death. He also interested himself in meteorology, taking daily readings of the weather in his garden, and it used to be his custom to publish weekly reports in the local Press. The deceased leaves a widow, four daughters and two sons, the elder of whom has been associated with his father in the business for fifteen years.

MARKING OF IMPORTED GOODS.—The attention of exporters is directed to a recent ruling of the United States authorities regarding the marking to indicate the country of origin for goods exported to the United States. This ruling lays down that the words "British manufacture" or "British origin" are not sufficiently definite, as they may refer to goods made in any part of the British Empire, and states that the name of the actual country should be used—e.g., "Made in England," "Product of England," etc.—"Board of Trade Journal."

Trade Notes

GOODALL, BACKHOUSE & Co., Leeds, invite chemists to send for specimens of the new labels used on their packed malt extract. Prices will be sent also.

LAWS, STRACEY & DYMOND, LTD., Lion Laboratories, Watford, invite applications for a catalogue which has just been published, in which are enumerated the various special preparations and packed goods which the company sell.

"THE CARE OF INFANTS."—Mellin's Food, Ltd., Mellin's Food Works, London, S.E.15, have published a revised edition of their 112-page book, "The Care of Infants." The company offer to send a copy to chemists who apply promptly.

ARCHIBALD'S OATMEAL CREAM is made by the Archibald Co., 190 Broadhurst Gardens, London, N.W.6. It retails at 7½d. and 1s. 3d. per tube, and the price is protected under the scheme of the Proprietary Articles Trade Association.

ALLENBURYS' CALENDAR FOR 1924.—The announcement of Allen & Hanburys, Ltd., in the *C. & D.* recently that the company were again supplying colour calendars for chemists' distribution has brought a good response. The advertisement is repeated on the cover of this issue.

CORK OFFER.—N. W. Mitchell & Sons, Ltd., Bouchon Works, London, E.14, make in this issue a special offer of corks. It will be noted that a guarantee against faulty corks is given with each parcel, and that full details as to sizes and prices appear in the advertisement.

CLARK'S SYPHON STOVES are in use in a good many chemists' shops. With the approach of winter the question of shop warming becomes urgent. In the advertisement of Clark's Syphon Stove Co., Ltd., 164A Queen Victoria Street, London, E.C.4, chemists are asked to write for booklets about the Clark stoves.

ENGLISH ESSENTIAL-OILS INDUSTRY.—J. & G. Miller, Mitcham, Surrey, send us an illustrated brochure dealing with the distillation of English essential oils, particularly lavender and peppermint. The text gives an interesting account of the various operations from the planting of young herbs to the collection of the distilled oil.

FRENCH PHARMACEUTICAL PRODUCTS.—Dick, Coates & Co., 41 Great Tower Street, London, E.C.3, sole agents for the Laboratoire des Produits "Usines du Rhône," send us a pamphlet which has been issued in which are particularised in table form the various products of the company. Details of the packages, dose and uses of the articles are also given.

CUTICURA SHAVING STICK.—Newberys' Agencies (Francis Newbery & Sons, Ltd.), 31-33 Bunner Street, London, E.C.1, send us samples of the new Cuticura shaving stick. The soap is of an olive green colour and the distinctive Cuticura odour. It gives a rich creamy lather that makes shaving a pleasure. The stick is packed in a nickel case and carton and is excellent value at retail price of 1s.

MARTINDALE'S PRICE LIST.—A well-printed, cloth-bound price list is issued by W. Martindale, manufacturing chemist, 10 New Cavendish Street, London, W. The new edition, of which a copy reaches us this week, shows several improvements on the previous list. The recent advances in therapy are shown in the inclusion of new remedies such as aspiridine (combining the properties of aspirin and iodine), emetine periodide, peptone desensitisation, and sedasprin (aspirin and bromine). The value of the list is enhanced by the notes it contains on the uses of the various remedies. Any chemist who sends a postcard request can have a copy of the list.

BRILLE AND "SERVERS OF THE BLIND" LEAGUE.—Miss Ellen Terry, President of the Braille and "Servers of the Blind" League, has issued an appeal for funds in aid of the League, which provides special treatment for children who are defective as well as blind. Donations may be sent to 3 Upper Woburn Place, London, W.C.1.

Personalities

COUNCILLOR C. A. CRITCHLEY, Ph.C., Blackburn, has again been adopted as a candidate at the forthcoming municipal election.

MR. FRED RAND, Leamington Spa, has been appointed as representative of Britex Chemical Products, Ltd., for the Midland area and a portion of London.

MR. R. G. PATTINSON, 31 Agar Road, West Derby, Liverpool, has been appointed as representative of A. Bourjois & Cie, Ltd., for Lancashire and Cheshire.

MR. P. J. GILLBARD, the agent in Japan of J. F. Macfarlan & Co., manufacturing chemists, London and Edinburgh, has been reported safe after the earthquake, and is now at Kobe.

AMONG the new candidates for election to the Irish Pharmaceutical Council are Mr. Todd, who conducts a pharmacy at 72 Holywood Road, Belfast, and Mr. John Adams, who is the proprietor of the Earlswood, a suburban pharmacy, at 281 Upper Newtownards Road, Belfast.

COUNCILLOR F. W. BATES, chemist and druggist, Brooks's Bar, Manchester, gave the prizes in the boys' and girls' championship races at the Strelford swimming gala on September 15. The prizes included a gold medal and gold centre medal for boys, and for the girls' race a gold pendant and chain.

MR. EDWARD DEAN, chemist and druggist, Newcastle-on-Tyne, recently celebrated his eighty-eighth birthday. Mr. Dean, who is the city's oldest surviving chemist, commenced business in Newcastle in 1856 in Adelaide Place, New Bridge Street. He later removed to Alice Place, where he remained until twenty-two years ago. At present he resides with his son at 21 Sandringham Terrace, Benton.

MR. W. J. UGLOW WOOLCOCK, C.B.E., Ph.C., general manager of the Association of British Chemical Manufacturers, broadcast on September 19 from the London station of the B.B.C. a talk on "Applied Chemistry in Modern Life," in which he emphasised the importance of chemistry to the national welfare, and dwelt on the progresses realised in Great Britain in this branch of science and industry during the past few years.

Information Department

INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.4.

Aluminium hot-water bottles.	Lactolax. B/199
E/159	Lintox distemper. B/179
Ambriodin. D/199	Melrose hair restorer. D/39
Brandram's saltpetre. O/139	Pulvermacher's electrical appliances. S/189
Butyn. W/179	Rowley's earthenware sanitary appliances. B/149
"B.L." appliances. T/69	Selenifuge. M/159
Ferguson's glycerin balm. L/179	Seltona photo. papers. W/199
Green Mountain asthma cure S/59	Spraolite. H/199
Hill's ear-phones. W/159	Superol. B/179
Hobson's fruit beer. E/149	Transparent wrapping paper. R/129
Hoechst preparations. R/189	Uropherin. A/199
Ichthalbin. C/179	White's Sastras soap. B/109
Janet Moore's toilet preparations. R/159	

ROLLMOPS.—A British patent has been taken out by a German citizen for a "method and apparatus for the production of rolled herring."

INSULIN TRADE MARK.—The Government Gazette of South Africa, July 20, contains the first advertisement of the application for registration of the word "Insulin" as a trade-mark:—No. 340/23, in Class 3, in respect of chemical substances prepared for use in medicine and pharmacy, in the name of Connaught Antitoxin Laboratories, a department of the University of Toronto, of City of Toronto, Canada. Filed March 21, 1923.

Observations and Reflections

By Xrayser II.

Sir Ernest Rutherford's Address

will be read with interest by many who, like myself, have a very imperfect acquaintance with its subject and are incapable of more than a general appreciation of its argument. It is not, of course, a final account of the electrical structure of matter; there is indeed no finality in science; and what strikes me most in this address is the difference in many respects between it and the account given of the electronic theory, largely founded on Sir Ernest's own researches, given in a chemical handbook published so lately as the spring of last year. The differences are probably more apparent than real, some of them being merely verbal, but it is evident that a very considerable advance has been made in knowledge of the subject since the earlier account was written. The name electron itself is not very old (the writer of the book referred to speaks of it as having only "recently become very familiar"), and proton seems newer still. Names follow quickly on the discovery of things (witness, hafnium), and every new one marks a stride forward. It is this ceaseless advance—an advance, too, on many lines—that is so wonderful. New vistas are opened to us almost every day, and though we speak sometimes of the shrinkage of the world before man's conquest of it the fact is that the universe is constantly widening on our view.

Coventry Patmore,

in his poem, "The Two Worlds," contrasts the world of the telescope with that of the microscope, and declares the latter to be the more interesting and important; it is in it, he would have us believe, and not in the wide fields of space and immense solar systems, that we must look for the secret of the universe. He anticipated, as poets have often done before, the trend of the science of the day succeeding his own, and showed once more that the imagination is the *avant courier* of discovery, in the physical as in the moral world. We shall not, as he advised, "put by the telescope"; knowledge comes to us from every quarter, and there is no antagonism between any real facts; we cannot indeed say that there is any true distinction to be drawn between "the infinitely great and the infinitely little," for infinity lies all round us, and, as another poet has said, we may find eternity in an hour and all heaven in a grain of sand. The atom, apparently, has more to teach us that it really concerns us to know than is comprised in all the "spoils of time."

Mr. J. Hewton,

in his letter dealing with pharmacy in Ireland, twice speaks in a contrary sense to the one he intended, or appears to have intended. Apparently he meant to ask whether anybody could deny that the abolition of the Registered Druggist grade *would* be a great advantage, and whether it is not possible that this consummation *can* be effected, etc. Supposing this to have been his meaning I have little doubt that most British pharmacists (who, however, are only onlookers) will answer the former question in the affirmative; the latter our Irish friends must answer for themselves, but a word of advice from an onlooker may perhaps be allowed. I take it for granted that the abolition would be an advantage all round, to the R.D.s themselves, to the fully qualified class, and to the public; but it would be more to the advantage of the pharmaceutical chemists than to anybody else, and it is for them to make all possible concessions with a view to a reasonable settlement. This their own interest should make plain to them, but I gather from Mr. Hewton's concluding remarks that they have not gone so far as they might go in this direction. If only "bogeys" bar the way to an arrangement it is childish to stick at them. It is no doubt possible that there may be two opinions as to what are only bogeys, but "non-recognition" would certainly seem to come under this head, and the avoidance of all bitterness is the first duty of all parties to the dispute.

Here in England

we have no R.D.s, but we have the unqualified stores. Is there any lesson for us in the state of things in the sister island? The conditions there and here differ widely, but there is this in common between them—the qualified pharmacist both there and here has, so far as a considerable portion of his business is concerned, to suffer from the competition of men of inferior or of no qualification. Personally I think our lot here is preferable, but that is a matter of opinion, and it is not the point with which I am at present concerned. The question in my mind is two-fold: (1) Does pharmacy, legitimately so-called, in this country offer a sufficient inducement to so large a body of practitioners as are engaged in it? and (2) How far can a pharmacist combine other business with that of pharmacy without lowering the value of his qualification as a pharmacist? Experience has shown that the British public has little or no use for more than a very limited number of pharmacists pure and simple, and that a great deal of the business we do can be carried on by men without our qualification; the question therefore narrows itself to this—does it pay the pharmacist who values his position as such to meet the competition of these men on their own level or a close approximation to it? Here, perhaps, a lesson may be drawn from Ireland. It seems to have been felt over there that the demand for pharmacists was strictly limited, and that there was room for an intermediate class between them and the totally unqualified. It looks, too, as if this half-way house had proved a failure. It would not do to press the argument where the conditions are so different, but I put it to Mr. Doubleday that this may justify my opinion that it does not even pay to "cheapen" pharmacy beyond a certain point.

"Commercialising,"

says Mr. Doubleday, is not lowering, but this depends upon what we mean by commercialising. In judging of human actions we should be guided by the motive that inspires them. The commercial motive may be as good as any other, but it is not for nothing that in common usage "the commercial spirit" means something distinctly inferior to the spirit of service; trade is in itself perfectly honourable, but somehow or other it is more apt than agriculture, or manufacture, or any directly productive industry to lower the motives of those immersed in it to degenerate into selfish gain-getting. The explanation probably is that in mere trading the only criterion of success is money-making. Of course, the spirit thus engendered may enter into every kind even of productive industry, but it is not so directly fostered where pride in one's work for its own sake is a more active factor. Is it denied that the reason why pharmacy has been "commercialised" is that pharmacy pure and simple does not pay? To make it pay is a quite legitimate object, but there is a point beyond which it cannot be pursued without danger. In any case it means the substitution of a lower motive, and the more pharmacy is pushed into the background the less will it thrive in our hands. We cannot well serve two masters.

A Good-natured Friend,

who appears to have noticed my use of the word, reminds me that propaganda, as a singular noun, has been questioned, the idea being, apparently, that it is a plural formed like memoranda, which, however, is a mistake. It is not indeed a plural at all, but, as a grammarian informs me, the "feminine singular gerundive found in the title, 'Congregatio de propaganda fide,' denoting the great Roman-Catholic organisation for the spread of the faith." It is amusing to be told further that search has been made for the writer responsible for its first use as a singular noun. I have myself looked for the supposed singular form *propagandum* in vain, though I understand that it has been used by some ignorant writers.

FRENCH AID TO JAPAN.—The French Medical Mission to stricken Japan left on the liner "Cordillères," with 79,000 doses of sera and vaccines and surgical stores.

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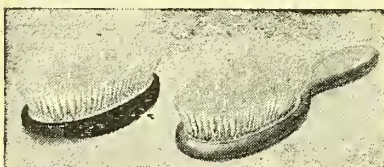
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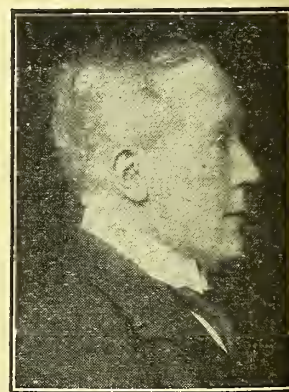
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Editorial Articles

Interfaces and Emulsion Stability

THE method we adopted last week in dealing with Sir Ernest Rutherford's address at Liverpool before the British Association for the Advancement of Science was, we find, appreciated by many of our readers. We have, therefore, adopted the same process of presenting a digest of the rather difficult address which Professor F. G. Donnan, F.R.S., delivered before the Chemistry Section. The address is symptomatic of the overlapping of physics, chemistry and even biology, so conspicuous a feature in modern science. It deals with "Some Aspects of the Physical Chemistry of Interfaces." As its title indicates, the subject-matter relates to the surface layers separating different matters in bulk, but the keynote is foreshadowing of application of the methods of physical chemistry to the problems of the phenomena of life itself. Further, a new line of thought is seen — "particularisation" replacing "generalisation" in considering molecules. Instead of averaging conditions of multitudes of molecules, attention is being given to their special orientation in surface layers and to the fact that the molecular field itself may be irregular. The latter condition gives rise to active or "polar" groups and molecules with parts possessing "high residual affinity." Professor Donnan points out that:—



PROFESSOR F. G. DONNAN, F.R.S.

The living organisms of plants and animals are full of surfaces and membranes. What can happen at surfaces is therefore a matter of great importance for the science of living things. We are bound to hold as long as possible

to the assumption that the physico-chemical manifestations of life can be explained in terms of the potentialities of action inherent in electrons, atoms and molecules. The drilled and disciplined soldiers of an army behave very differently from an undisciplined and disordered mob of the same men. Thus the modes of action of ordered arrays and marshallings of atoms and molecules are of extreme interest, since such modes of action will constitute phenomena non-existent in a disordered multitude of the same atoms and molecules with exactly the same individual powers and potentialities. These phenomena may be intimately connected with the phenomena of living matter, and as the latter evidently require the existence of surfaces and membranes, the idea naturally suggests itself that the special arraying or ordering of individuals occurs at, and may start from, such surfaces.

An essential characteristic of this ordering or arraying may consist in *special orientation*. In the chemical and physical actions occurring in a volume of liquid whose bulk is large compared with its surface, the molecules or atoms probably move towards each other with every sort of orientation, no special type being privileged or distinguished. Should, however, some special orientation be characteristic of interfaces, then it is clear that such interfaces will exhibit new phenomena due to this special sort of arraying. Moreover, if we are dealing with molecules which are ionised into electrically polar constituents, or which, if not actually dissociated, can be treated as electrically bi-polar, it follows that, if orientation occurs at interfaces and surfaces, then electrical double layers and electrical potential differences may be set up at such boundaries.

The address is highly technical, dealing with thermodynamical considerations beyond the average pharmacist, yet it embodies points of prime interest to him in connection with the stability of emulsions and of colloidal solutions. Though only the lines of the address are indicated, the fundamental considerations of emulsion stability are abstracted in simplified detail. In the first place, experiments show that cohesive forces of liquids are essentially chemical in origin, active atoms (such as oxygen in alcohols, acids, and aldehydes) increasing adhesional work of many organic liquids towards water. The spreading of fatty acids on water is an example of the theory of formation of a unimolecular surface layer, molecules of fatty acid being arranged side by side with long axes vertical and carboxyl group attracted towards the water. Data are needed to decide whether adsorbed layer (of gas) on liquid or solid surface is one or more layers thick. From results it may well be that a unimolecular "saturation" layer occurs only with active molecules, while with molecules possessing weaker or more symmetrical fields the attraction may extend through layer of adsorbate several layers thick. Professor Donnan next deals with cases where a substance dissolved in a liquid concentrates preferentially at the liquid-vapour interface, which occurs when the substance in dilute solution lowers the surface tension. Then attention is called to the phenomenon of the existence of an electrical potential gradient, or "potential difference" in the surface layer, these interfacial potential differences being of great importance in determining the stability of many colloidal states of matter. Comparatively large bubbles which quickly rise and burst are formed when air is violently churned up with water. A milk-white "air emulsion," forming a relatively durable froth, is produced when a very small quantity of substance is added, which concentrates at the air-water interface. The work of Ellis and Powis in Professor Donnan's laboratory shows that an oil droplet moves with an attached negative or surface sheet (probably of hydroxyl ions), balanced by a positive charge (determined by hydrogen ions) in surface layer of the

water. The potential difference of this "electric double layer" between pure hydrocarbon oils and water is 0.045 to 0.053 volt. The most remarkable result emerging from the above electrical investigations is the relation between emulsion stability and the potential difference of the interfacial double layer. Consideration leads to the view that coherence of oil droplets (and clearing of emulsion) should be at a maximum at the iso-electric point of Hardy, which is zero potential difference. It was found that the experimental emulsions were relatively stable so long as the interfacial potential difference (whether positive or negative) is above a critical potential of about 0.03 volt. Inside this critical potential zone of -0.03 to $+0.03$ volt the stability of the emulsion undergoes a sudden and very marked decrease, and relatively rapid coagulation occurs. For example, on increasing the concentration of thorium chloride the interfacial potential difference traverses successively the following regions:—

- (1) Above the critical value (and negative).
- (2) Inside the critical zone (negative and positive).
- (3) Above the critical value (and positive).
- (4) Below the critical value (and positive).

In exact correspondence with this series the emulsion goes through the following states:—

- (1) Stable (oil particles "negative").
- (2) Unstable and flocculating (oil particles negative or positive).
- (3) Stable (oil particles positive).
- (4) Unstable and flocculating (oil particles positive).

These studies of oil emulsions have thrown a great deal of light on many previously ill-understood points in the theory of colloids. If the potential difference between the particles of a suspensoid hydrosol and the aqueous fluid are not above the critical potential, coagulation will occur. Very small concentrations of certain electrolytes raise the potential difference and stabilise the hydrosol, which explains the well-known "peptising" action. Higher concentrations of even the same electrolytes will reduce the "P.D." below the critical potential, and produce flocculation, while results show the enormous influence of the valency of the cation in a series of salts with the same univalent anion. The fundamental fact is that the rate of coagulation of an oil suspension or of a lyophobic hydrosol undergoes a relatively sudden and very great increase when the interfacial potential difference falls below a certain point value (positive or negative). The "stabilities" of the hydrocarbon oil emulsions refer to very dilute suspensions of oil in water, produced by mechanical agitation without the addition of any "emulsifier." In the emulsification of oils in water by means of soap, the soap lowers the interfacial tension and concentrates at the interface. To produce oil emulsions in the ordinary sense of the term some such emulsifying agent must be used, and for this purpose many substances are employed, such as soap, gum acacia, gelatin, casein, starch, etc., etc. All these substances concentrate or condense on the surfaces of the oil globules. If we may regard these surface films as very mobile from the molecular-kinetic point of view, it is clear that they will confer an increased degree of stability on the emulsion. For any sudden decrease of interface (caused, for example, by coalescence or partial coalescence of two adjacent globules) will produce a momentary increase in the surface concentration or thickness of the adsorption layer, and so a decrease in the interfacial tension, if the surface layer is not saturated. It may require a perceptible time for the molecular-kinetic motion (especially in the case of large molecules or hydrated micelles) to readjust the equilibrium between the surface layer and the bulk. It is probable,

however, that the stability of the emulsion is in many cases due to the fact that the surface films possess a very viscous, quasi-rigid, or gel-like character, so that a more mechanical explanation is necessary. Nevertheless, even in cases where an emulsifier is used, Professor Donnan hopes to succeed in obtaining a more precise physical analysis of the system. The chief interest of the studies of the properties of surfaces—molecular orientation, surface concentration or adsorption, electrical or ionic polarisation, lies in their possible ultimate bearing on the phenomena of life. The activities, and, indeed, the very existence of a living organism depend on its continuous utilisation of an environment that is not in thermodynamic equilibrium. A living organism is a consumer and transformer of external free energy, and environmental equilibrium means non-activity, and eventual death. It is probable, therefore, that along and across "living surfaces" there is a continual flux of activity. Does the very existence of these surfaces depend on some special sort of activity? As we pass from certain peculiar atomic states (where the actions appear to have no relation to environment) to molecules, colloidal micelles, and living cells, the effects of the environment in determining activity seem to become more and more pronounced. The internal state of a living cell or organism may arrive from time to time at "critical" points and "critical" transformations, and the resulting events will be immediately determined by the special internal nature and activity of the cell itself. Is this "special internal nature and activity" simply a special type of organisation or arrangement of the positions, shape, sizes, orientations and motions of electrons, atoms, ions, and molecules? To this oft-put question the answer of physico-chemical science is still in the affirmative. Probably future progress will depend more on the investigation of the special nature, situation, and action of individuals than on the statistical thermodynamic treatment of the average behaviour of the "crowd."

A Revival in Turpentine

In view of the uncertain feeling and the general dullness of trade demand, which has existed in American turpentine oil within the last few months, and the conservative views expressed on the outlook in our issue of July 14 (p. 56), the fact deserves notice that, as the result of concerted action by American interests new life was infused into the market in the latter part of last week, when prices responded sharply, rising about 5s. per cwt. from the lowest point recorded recently. This happening in spite of the decidedly easier statistical conditions experienced on this side, as indicated by the considerably increased imports of the last few months and the consequent additions made to the warehouse stocks, has aroused comment. It had been suspected by dealers recently that the market was touching the bottom, and this impression having been strengthened by the more hopeful reports from across the Atlantic as to industrial prospects and the improving demand in most descriptions of material for the paint and varnish trades, the attitude of sellers in this market became more reluctant to meet the demand except at rising prices, notwithstanding the renewed advance in the dollar rate of sterling. Within the last three months or so there was a very substantial fall in prices, as may be seen from the quotations we give below:—

Per cwt.	June 14	July 10	Lowest last week	Sept. 17
American, spot ..	103/9	78/-	69/-	74/6
do., Oct.-Dec. ..	74/6	70/6	71/3	75/-
do., Jan.-March ..	—	—	72/-	77/-

A healthy sign lately has been the comparatively much larger deliveries from warehouse, the total for the first half of September being well over 4,000 barrels, while the aggregate since the beginning of the year represents more than 66,000 barrels, thus denoting an excess of about 5,000 barrels against the corresponding period of last year. Home consumption would, therefore, appear to be at a rate equal to the pre-war year 1913, in spite of the current price being more than double that ruling at that period, under much larger stocks and a lower cost of production. The present London stocks, amounting to roughly 15,000 barrels, being about sufficient to cover trade requirements for a couple of months or so, the development of new speculative buying based on prospects of a recovery in consumption on either side of the Atlantic will probably help in keeping forward positions at a moderate premium towards the end of this year. By that time, as has usually occurred before, the relationship between spot and forward spirit is not unlikely to be reversed, and thus lead to the discount on the former disappearing and being eventually superseded by the exaction of a premium if stocks at this end become restricted. Adverse features, however, whether on account of this season's American increased crop yield, placed at fully one-fourth above that of the previous year, or any marked falling off in the American demand, are always apt to crop up and to interfere with any attempts by American interests to force up the price to an unduly artificial level. The Americans are well aware of the fact that, as we already pointed out before, the French production this year has been comparatively small, hence attempts are quite likely to be made later on to manipulate the market against the short interest or at the expense of the consumer in the event of more lively industrial conditions. According to quite recent advices from Savannah, some 8,000 barrels were in the course of loading for shipment to this side; and as ample supplies are well assured into the earlier part of the winter there seems no reason why consumers should buy much in excess of their needs. Our imports for last month were very satisfactory, amounting to 2,952 tons, against 1,719 tons for the same month in 1922, and the aggregate for the eight months represents 12,102 tons, which as compared with January-August last year shows an excess of about 220 tons. The London stocks now consist almost entirely of American spirit. The position of the French market has been somewhat complicated by the recent violent fluctuations in the rate of exchange to the sterling; and the maintenance of comparatively high terms to domestic users tended to hinder the outlet and thus discourage buying by merchants, so that the latter carry virtually no stock, the great bulk of the available supplies being still in distillers' hands. In another month or so, however, producers' operations will be completed for the season, and this may influence the market.

Organotherapeutic Products in Poland

THE vexed question whether organotherapeutic preparations should be prescribed in terms of fresh gland or in the corresponding amount of dried product has been taken into consideration in the new Polish regulations now issued by the minister of public health, establishing the conditions under which organotherapeutic preparations may be admitted into the republic of Poland. This ministerial decree supplements the law on the sale, manufacture and importation of pharmaceutical specialities (THE CHEMIST AND DRUGGIST, I., 1922, index folio 245), inasmuch as it refers exclusively to "remedies which

are prepared from animal organs and which do not possess any definite chemical composition." The importation into Poland and the sale in that country of organo-therapeutic products of foreign manufacture have to be sanctioned by the minister of health, and this permission will only be granted to preparations of this category provided that in the country of origin their sale is permitted and that their manufacture is carried out under efficient expert supervision; the permission may, however, be withdrawn at any time. In order to secure the necessary licence an application has to be made to the minister of health, addressed in the first instance to the state pharmaceutical institute in Warsaw, giving particulars of the products for which permission to import and sell is requested, attaching an official certificate (i.e., a declaration issued by a government department) to the effect that the preparations in question may be sold in the country of origin and that they are manufactured under adequate expert control. This application must be accompanied by two original packages of each product as placed on the market. In the case of organo-therapeutic products which are prepared according to known methods, the use of coined designations is forbidden, and such preparations may only be labelled in strict accordance with their exact nature, stating the name of the animal gland from which they are prepared—e.g., dried . . . gland in tablets"; "glycerin extract of . . . gland," etc. The following particulars have to appear on the label or wrapper of packages containing organo-therapeutic preparations: (a) Name of the preparation; (b) method according to which the product is prepared; (c) name of manufacturer and address of laboratory where the product is actually manufactured; (d) amount by weight of fresh animal gland corresponding to one unit of the preparation; (e) date of manufacture of product; (f) statement to the effect that the preparation may only be sold on a medical man's prescription. In addition, it is permitted to include on the label brief directions for use. A copy of the label has to be submitted to the minister of public health for his approval, and it is forbidden to enclose with the preparation in packages intended for delivery to the public any advertisements, information as to treatment, etc. It will be seen that the ratio of fresh gland to desiccated product has to be stated on the label of all organo-therapeutic products marketed in Poland. At the same time the question arises, as so often in connection with recent pharmaceutical legislation in foreign countries: Which is the government department competent to issue to British manufacturers declarations of the nature stipulated in the Polish and Spanish laws?

A PHARMACY FOR WHEAT.—Owing to the depreciation of the currency, in the agricultural parts of Hungary wheat is now the standard of barter, and recently the pharmacy in Nagyörös was sold for 600 cwt. of wheat, valued at £3,125.

BRITISH CATALOGUES FOR CANADA.—H.M. Senior Trade Commissioner in Canada (Mr. R. W. Dalton) has informed the Department of Overseas Trade that there is a serious lack of British catalogues in the various Trade Commissioners' offices in Canada. He points out that without such catalogues it is often a difficult matter to advise firms in Canada as to possible British sources of supply.

INDIAN WORMSEED.—The Bulletin of the Federation of British Industries for September 11 announces that the Imperial Institute has been approached by chemical manufacturers in the United Kingdom with regard to the possibilities of obtaining supplies of *Artemisia* from other sources than Russia. Inquiries were accordingly made by the Institute as to whether supplies for export could be collected in Northern India, and samples of the Indian material were procured for examination. These proved to contain a fairly satisfactory amount of santonin, and manufacturers stated that if immediate supplies were available they would be prepared to purchase consignments. Information has recently been received from India that 190 tons of *Artemisia*, containing 1 per cent. of santonin, are now available for export.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts

Local Reports

ENGLAND AND WALES

Blackburn.—At a meeting of the Insurance Committee, on September 13, a letter was read from the Minister of Health, stating that he had under consideration arrangements for securing that drugs and appliances supplied to insured persons were of the proper quality, and inquiring whether the Committee had any suggestions to make. The clerk was instructed to reply that in Blackburn it had not been necessary to take action against any chemist, all tests having proved satisfactory.

London.—A meeting of the Pharmaceutical Committee was held on September 18, 1923, Mr. A. R. Keith (vice-chairman) presiding. The report of the Central Checking Bureau for May and June, 1923, showed a margin of error of 0.05 per cent. and 0.06 per cent. respectively. The secretary reported particulars of dispensing as follows:—

	May	June	Jan.-June
Value of ingred. . .	£6,996 11 8	£6,732 2 4	£45,406 10 7
" dispensing fees	£9,065 15 1	£8,625 8 9	£59,454 16 10
Number of prescriptions . . .	482,842	460,657	3,153,279
Av. ingred. cost. . .	3.48d.	3.61d.	3.46d.
Av. dispensing fee cost . . .	4.50d.	4.49d.	4.52d.

He also reported:—That a special note on the supply of insulin appeared in the tariff for August. On the steps taken by the Society of Public Analysts in sampling medicines. The Board of Customs and Excise will not object to the formulas for certain liniments and lotions with mineralised methylated spirits. The rota of the special dispensing service in the south-eastern area will be continued, and the secretary was instructed to carry out the necessary arrangements.

September Drug Tariff

The following are the alterations for September in the Insurance Drug Tariff for England and Wales:—

Lower.—Acid, carbolic. B.P. (detached crystals), 2s. 4d. lb.; acid, carbolic. liq. B.P., 2s. 2d. lb.; acid, citric. pulv. B.P., 2s. 9d. lb.; acid, tartaric. pulv. B.P., 1s. 11d. lb.; ammon. phosph. B.P., '98, 3s. 3d. lb.; anthem. flor. B.P. (exot.), 5s. 9d. lb.; camphora B.P. (flowers), 5s. 9d. lb.; ext. cannab. ind. B.P., 17s. oz.; hydrarg. iod. rubr. B.P., 1s. 7d. oz.; hydrarg. oxid. flav. B.P., 7s. lb.; hydrarg. perchl. B.P., 5s. 8d. lb.; hydrarg. subchlor. B.P., 6s. 2d. lb.; hydrargyrum amm. B.P., 7s. lb.; hydrargyrum c. creta B.P., 2s. 8d. lb.; hydrargyrum oleat. B.P., 5s. 6d. lb.; liq. formaldehyd. B.P., 1s. 6d. lb.; ol. anisi B.P., 3½d. oz.; ol. lini B.P., 6s. 9d. gal.; ol. olivæ B.P. (sublime), 13s. 6d. gal.; ol. tereb. rectific. B.P., 2s. 8d. lb.; pasta zinci co. B.P.C., 1s. 6d. lb.; pasta zinci et gelatin. B.P.C., 2s. 9d. lb.; pot. tart. acid. B.P., 1s. 4d. lb.; santonin. B.P., 10s. dr.; sapo mollis B.P., 1s. 6d. lb.; spt. vini meth. 5s. gal.; terebenum B.P., 4s. 6d. lb.; ung. boracis B.P.C., 2s. 6d. lb.; ung. calaminæ B.P., '85, 2s. 3d. lb.; ung. hydrarg. B.P., 3s. 2d. lb.; ung. hyd. co. B.P., 3s. 9d. lb.; ung. hyd. oleat. B.P., 3s. 3d. lb.; ung. hyd. subchlor. B.P., 3s. 10d. lb.; ung. resorcin. co. B.P., 4s. 6d. lb.

Higher.—Cocain. hydrochl. B.P., 4s. 4d. dr.; codeina B.P., 4s. dr.; codein. phosph. B.P., 3s. 2d. dr.; diamorph. hydrochl. B.P., 4s. 1d. dr.; ext. casc. sagr. liq. B.P., 3s. lb.; ext. casc. sicc. B.P., 10d. oz.; ext. opii liq. B.P., 5s. 3d. lb.; ext. opii sicc. B.P., 5s. oz.; lin. opii meth., 7s. 6d. lb.; liq. morph. acet. B.P., 5s. 3d. lb.; liq. morph. hydrochl. B.P., 5s. lb.; liq. opii sed. B.P.C., 7s. 6d. lb.; menthol B.P., 4s. 9d. oz.; morph. acet. B.P., 2s. 8d. dr.; morph. hydrochl. B.P., 15s. 9d. oz.; ol. eucalypt. B.P., 3s. 6d. lb.; opium pulv. B.P., 2s. 8d. oz.; podoph. res. B.P., 3s. 2d. oz.; pulv. ipecac. co. B.P., 6s. lb.; tr. opii B.P., 5s. 9d. lb.; tr. opii ammon. B.P., 6s. 7d. lb.; ung. gallæ e. opio B.P., 4s. 3d. lb. Cotton wool, unmedicated B.P.C., 2 oz., 3.3d.; 4 oz., 5.9d.; 8 oz., 11.0d. Ice bags, check, circular shape, 26.0d. each.

On and after October 1 next all drugs, preparations and appliances specified in the tariff as B.P.C. or ordered in an insurance prescription as B.P.C. are to be in accordance with the British Pharmaceutical Codex, 1923.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1923, p. 289.

(From "The Trade-marks Journal," August 15, 1923.)

"ELYSIOIA"; for skin emollients (48). By G. E. Grover and C. F. Ferriday, 19 Bondgate, Back Lane, Ripon. 434,476.

(From "The Trade-marks Journal," August 22, 1923.)

"BUDGE"; for all goods (2). By L. C. George, 76 Alexandra Road, Edgbaston, Birmingham. 436,142.

"UTTLEY'S T.U." with arrow device ("Uttley's" and "T.U." disclaimed); for medicines for birds and animals (2). By T. Uttley, 119 Eastbourne Road, Southport. 438,327.

"DICARBOX"; for medicinal chemicals (3). By R. W. O'Gorman Davis, St. Issells, Woodfield Lane, Ashted, Surrey. 436,349.

"JUNITE"; for medicinal chemicals (3). By The Woodland Supply Co., 1 Woodland Place, Long Row, Nottingham. 436,835.

"TUTOCAMINE"; for medicinal chemicals (3). By Bayer Products, Ltd., 31 Basinghall Street, London, E.C.2. 437,698.

"AMEZCE"; for an ointment (3). By A. T. Hollingsbery and F. J. Pullen, 34 Gordon Square, London, W.C.1. 438,021.

"DENTHETOL"; for medicinal chemicals (3). By F. H. Stuttgart, 88 Raikes Road, Blackpool. 438,816.

"WILDROOT"; for liquid shampoo (48). By Wildroot Co., Inc., 1490-1510 Jefferson Avenue, Buffalo, New York, U.S.A. B434,035.

"DANS LA NUIT"; for perfumes and soap (48). By Société Worth, 7 Rue de la Paix, Paris. 431,633.

"FRESH AIR"; for perfumery, etc. (48). By A. Finlay, Ltd., Victoria Square, Belfast. 438,930. (Associated.)

"ST. IVEL"; for perfumery, etc. (48) and for polishes, etc. (50). By St. Ivel, Ltd., Newton Road, Yeovil, Somerset. 438,131/132. (Associated.)

(From "The Trade-marks Journal," August 29, 1923.)

"ROBIN"; for food flavouring preparations (42). By Etablissements Robin Société à Responsabilité Limitée, 2 Rue Paul Janet, Strassburg, Alsace, France. 431,673.

BONOPUS; for a tooth stopping (14). By Claudius Ash, Sons & Co., Ltd., 5/12 Broad Street, Golden Square, W.1. 438,308.

FLEUR DE LYS DESIGN; for medicinal chemicals (3). The Anglo-French Drug Co., Ltd., 238a Gray's Inn Road, W.C.1. 438,819.

"HEXURAMINE"; for medicinal chemicals (3). By Société Chimique des Usines du Rhône, 21 Rue Jean Goujon, Paris (8e), France. 438,107.

"SPHYGMONE"; for medicinal chemicals (3). By Hough, Hoseason & Co., Ltd., 2 Bridge Street, Manchester. 437,856.

"CYLOTROPIN"; for medicinal chemicals (3). By Chemische Fabrik auf Actien (vorm E. Schering), Mullerstrasse 170/171, Berlin N.39, Germany. 437,408.

"NEO-CERIL"; for medicinal chemical (3). By Alexander Baird, 43 Avenue de l'Opéra, Paris, France. 436,567. (Associated.)

"KAN-YON"; for medicinal chemicals (3). By Henry Holt, 78 Yorkshire Street, Rochdale. 439,174.

"BROMODAL"; for all goods (3). By John Bell Hills & Lucas, Ltd., Oxford Works, 14 Tower Bridge Road, S.E.1. 438,717.

"RIPHUS"; for medicinal chemicals (3). By T. J. Levene, 70 Crownfield Road, Leytonstone, E.11. 438,661.

DR. NATHAN TUCKER'S REMEDY; for human use in diseases of the respiratory organs (3). By A. Q. Tucker & Co., Ltd., Onaway, Half-Moon Lane, Herne Hill, S.E.24. B438,002.

"JOYDAY"; for all goods (1). By the Liverpool Borax Co., Ltd., Old Swan Works, Borax Street, Old Swan, Liverpool. 438,835. (Associated.)

L APPULA MILANO, with a bell device and words, "Made in Italy"; for tartaric acid (1). By L'Appula, Società per l'Industria Chimica Italiana, Via Tortone 27, Milan, Italy. 438,248.

"BROWNALINE"; for photographic chemicals (1). By Colthurst & Harding, Ltd., 11 Queen Victoria Street, E.C.4. 438,116. (Associated.)

"DARKALINE"; for photographic chemicals (1). By Colthurst & Harding, 11 Queen Victoria Street, E.C.4. 438,115. (Associated.)

"VULCAN"; for coal-tar dyestuffs (1). By the British Dyestuffs Corporation (Blackley), Ltd., 70 Spring Gardens, Manchester. 437,025.

(From "The Trade Marks Journal," September 5, 1923.)

"VAPO-TUSSOLINE"; for veterinary preparations (2). By Mary H. Tinker, 238 Bolton Road, Irlams-o'-th'-Height, Manchester. B 436,731.

"SPEDDO"; for all goods (2). By the United Alkali Co., Ltd., Cunard Building, Pier Head, Liverpool. 438,411. (Associated.)

"MIABOR"; for all goods (2). By W. Taggart, 787 Crumlin Road, Ballysillan, Belfast. 438,508.

"MOTHPHO"; for insecticides, etc. (2). By H. Pickup, 2-14 Staple Street, London, S.E.1. 439,253.

"OLIVENE"; for a preparation of extract of barley, malt and olive oil (3). By R. Blackie, Shen Works, Tower Bridge Road, London, S.E.1. 429,954.

"LOURNAY"; for medicinal chemicals (3) and for perfumery, etc. (48). By Lournay, Inc., 42 Fourth Street, Milwaukee, Wis., U.S.A. 436,474/475. (Associated.)

"FRUIT SALT," "ENO," etc., with grape device and Chinese characters at top, including representation of name "Eno" on diamond shape; for a medicine (3). By J. C. Eno, Ltd., Lever House, Victoria Embankment, London, E.C.4. 437,092. (Associated.)

"CASCARODYNE," on label device, including monogram "J. R. & Co., E.," "IDOGEN," on label device, including monogram "J. R. & Co., E.," for medicines (3). By J. Robertson & Co., 24 North-West Circus Place, Edinburgh. B 437,582/583.

"MISTOL"; for all goods (3). By Standard Oil Co., Constable Hook, Bayonne, Hudson Co., New Jersey, U.S.A. 438,793. (Associated.)

"MOLOCOLA"; for a medicine (3). By Hausmann Société Anonyme, 11 Marktgasse, St. Gall, Switzerland. 437,020.

"JOHN KNIGHT'S FAMILY HEALTH SOAP"; for coal-tar soap (47). By John Knight, Ltd., Silvertown, London, E.14. B 424,902.

"WILLIAMS"; for toilet soap (48). By the J. B. Williams Co., Glastonbury, Connecticut, U.S.A. B 425,940.

"ARCHIBALD'S OATMEAL CREAM PREPARATIONS," with device of oats, pestle and mortar, etc., and including word "Purity" ("purity" and "Archibald's" disclaimed); for oatmeal cream preparations (48). By H. C. Jenkins, 190 Broadhurst Gardens, West Hampstead, London, N.W.6. 437,123.

"GESOVAR," the letter "O" being in form of the sun; for all goods (48). By Phyllis Earle, Ltd., 15 North Audley Street, London, W.1. 438,955.

"THE DANSANT"; for perfumery, etc. (48). By Solport Bros., Ltd., 184 Goswell Road, London, E.C.1. 439,007.

(From "The Trade-marks Journal," September 12, 1923.)

"FASNIT"; for chemicals (1). By Foster, Mason & Harvey, Ltd., 26 Grange Road, Bermondsey, London, S.E.1. 439,464.

"CAIRN"; for chemicals (1). By J. Arthur, 2 Forth Banks, Newcastle-on-Tyne. 439,638.

"HUMANE VETERINARY REMEDIES" and letters "HVR" on device of globe ("HVR" disclaimed); for veterinary remedies (2). By J. H. Knox, Division Street, Coburg, Ontario, Canada. 431,953.

"EVALE"; for chemicals (2). By Whitford & Sons, 13 Bridge Street, Evesham, Worcestershire. 439,112.

"CUREX," on circular label, with name and address of applicant; for an ointment (3). By A. Morris, 130 Ravenhill Road, Belfast. B 425,891.

"JELLINE" and "CHOCOLINE"; for medicinal chemicals (3). By G. Staley, The Grove, Nottingham Road, Tansley, Matlock. 429,237/478.

"IRONA"; for medicated cotton-wool, paper, soap and beverages (3). By Irona Products, Ltd., Bardon Chambers, Infirmary Street, Leeds. 431,315. (Associated.)

"AYRTON'S PINETTES," etc., on oblong label; for medicated pine lozenges (3). By Ayrtton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool. B 434,126.

"LIQUORINE WHITTAKER'S COUGH REMEDY," on square label ("Whittaker's" disclaimed); for cough medicine (3). By W. E. Whittaker, West-End Pharmacy, Alverthorpe Road, Wakefield. 437,569.

"CAMPHROTOL"; for a pharmaceutical preparation (3). By Society of Chemical Industry in Basle, 141-227 Klybeckstrasse, Basle, Switzerland. 437,908.

"VLUBURINE"; for medicinal chemicals (3) and for perfumery, etc. (48). By the General Kaputine Syndicate, Ltd., Lilley Street, Queen's Road, Manchester. 437,978/979. (Associated.)

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby the values are in many instances greatly augmented before the wholesale dealer receives the goods. For stock, after which much expense may be incurred in garbing and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, September 20.

BUSINESS in the Mincing Lane produce markets remains much as previously reported. Interest this week has centred in the drug auctions, when moderate supplies were offered. Privately, the few changes include a further advance in Belgian chamomiles owing to a continued demand from consumers. Menthol was quiet until Wednesday, when an export order for America revived the spot market; the offering of goods to arrive is a feature this week, but such cannot be available until next year. Albumen is the turn easier. Shellac has had a rise of about 10s. on spot for usual TN orange, and futures are about 20s. higher. The seed market continues dull, with an advance in hemp seed. Cummin is arriving more freely, but previous high prices are maintained. Some of the fixed oils are dearer, these including cottonseed, linseed, palm, and soya. Turpentine has fluctuated, but on balance is rather dearer. Pharmaceutical chemicals show no improvement in demand, but prices in most instances appear to have touched bottom, but there are no tangible alterations in values. Acetanilide is tending firmer. Citric and tartaric acids are both weak. In industrial chemicals prices are fairly well maintained, and several products show a firmer tone, including caustic potash, sal ammoniac, sodium hyposulphite, potassium carbonate, and prussiate. Formaldehyde and arsenic are lower.

Higher	Firmer	Easier	Lower
Acid oils	Bergamot oil	Barbitone	Aloes (Curacao)
Candamom seeds	(c.i.f.)	Buchu	Arsenic
(decort.)	Castor oil (Fr.)	Camphor (Jp.,	Citric acid
Chamoniles	Jas'm'n oil	ref. slabs)	Colocynth
Cottonseed oil	Potash caustic	Cocoa butter	(pulpd)
Hemp seed	Sal ammoniac	Formaldehyde	Cuttlefish bone
(Manchurian)	Soda hypo-	hyde	Honey
Lavender oil	sulphite	Phenolphthalein	Ipecacuanha
Linseed oil		Potash carb.	(M.G.)
Palm oil		Sarsaparilla	Pitch
Shellac	Steadier	(native Jam.)	Potash pruss.
Soya oil			Rhubarb (rough
			hand-dried)
	Naphthalene		Sarsaparilla
			(grey Jam.)

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday :—

Place	Method of Quoting	Par of Exchange	September 12	September 19
Amsterdam	Fl. to £	12.107	11.56½—11.57	11.54—11.54½
Berlin ..	M to £	20.43	450-500 millions	850—950 millions
Brussels ..	Fr. to £	25.22½	95.00—95.10	93.00—93.10
Calcutta	Per rup.	24d.	16½d.—16½d.	16½d.—16d.
Christiania	Kr. to £	18.159	28.15—28.20	28.25—28.30
Constantinople	Pst. to £	110	700—720	760—780
Greece	Dr. to £	25.22	242—247	215—255
Italy	Lire to £	25.22½	10½—10½	102½—102½
Kobe	Per yen	24.58d.	25½d.—25½d.	25½—25½
Lisbon	Escu.	53½d.	2½d.—2½d.	2½d.—2½d.
Madrid	Pts. to £	25.22½	33.78—33.80	33.63—33.66
Montreal	\$ to £	4.86½	4.65½—4.66½	4.64½—4.6½
New York	\$ to £	4.86½	4.54½—4.55	4.53½—4.53½
Paris	Fr. to £	25.22½	78.65—78.65	77.75—77.75
Singapore	Per dol.	25.22½	28½d.—28½d.	28½d.—28½d.
Switzerland	Fr. to £	25.22½	25.42—25.42	25.65—25.67
Vienna ..	Kr. to £	24.02	321.00—326.00	320.00—325.00

Cablegram

NEW YORK, September 19.—Business is quiet. Peppermint is 10c. dearer at \$3.10 per lb., and balsam tolu is 25c. higher at \$2.25. Oregon balsam of fir is cheaper at \$2.60 per U.S. gallon.

Crude Drugs, etc.

AGAR AGAR. remains firm with spot sellers of No. 1 Japanese at 6s. and No. 2 at 5s. 9d. per lb. on the spot. Fifty bales have arrived *via* Antwerp.

The exports from Japan during June amounted to 50,320 kin, valued at 123,160 yen. During the six months ended June 30 they were as follows :—

			1921	1922	1923
Kin .. .. .	..	..	931,961	916,932	1,344,374
Yen .. .. .	..	..	995,886	1,420,319	2,868,244

ALBUMEN.—Prime Chinese hen could probably be had at 3s. 11d. per lb. on the spot, and September-October shipment at 3s. 10½d. c.i.f.

ALMOND OIL.—French expressed oil is quoted on the spot at 1s. 4½d. per lb.

ANTIMONY.—There has been a limited demand, and the tone is steady, with English special brands ranging from £34 10s. to £35. Foreign held in warehouse is more firmly held at £25 10s. to £26 per ton.

ARECA.—Fair Ceylon quality can be had on the spot at 37s. 6d. per cwt.

BALSAM TOLU.—Sales of single tins are reported on the spot at 10s. 6d. per lb.

CADMIUM.—Fair quantities have been coming in lately, but there is a moderate demand, and the market is steady at prices varying from 4s. 3d. to 4s. 6d. per lb., according to quality. Australian is becoming more plentiful.

CAMPHOR (REFINED).—Due to the rather heavy arrivals of Japanese slabs on the market, which has been unable to absorb them, prices are easier at 3s. 9d. per lb., and for September-October shipment 3s. 6d. c.i.f. is quoted; $\frac{1}{4}$ -oz. tablets have dropped to about 4s. 9d. on the spot.

The exports from Japan during June amounted to 3,721 piculs, valued at 758,138 yen. During the six months ended June 30 they were as follows:—

To	1921 Piculs	1922 Piculs	1923 Piculs
British India ..	968	1,451	5,453
Great Britain ..	658	2,049	1,330
France ..	227	1,139	1,770
Germany ..	83	760	2,477
United States ..	717	8,467	13,295
Australia ..	256	539	402
Other Countries	293	430	1,747
Piculs ..	3,202	14,835	26,574
Yen ..	652,387	2,965,509	5,355,530

CARMINE.—Finest French on the spot is offering at 19s. per lb.

CASCARA SAGRADA.—A limited quantity of four-year-old bark is offered in one quarter at 100s. per cwt. New bark is quoted at 86s. c.i.f.

CHAMOMILES.—Finest white new Belgian flowers are dearer, 450s. per cwt. being quoted, and for secondary grades mixed with brown from 350s. to 375s. is asked.

8 CLOVES.—Zanzibar are quiet, with spot sellers at 1s. 1d. per lb. To arrive, October-December shipment has been sold at 1s. 3³/₄d. c.i.f. The weekly wharf statistics show 1,333 bales landed and 3,019 delivered, leaving a stock of 15,546 bales, against 1,111 bales in 1922.

COCOA BUTTER is easier than last quoted, best English makes (C.F.R.) offering at 1s. 3d. per lb. in not less than one-ton lots.

COCONUT (DESICCATED) is firm, with halves selling at 39s. 9d. to 40s. 6d. on the spot, and September-October at 39s. to 39s. 6d. c.i.f.

CUMIN SEED.—Arrivals aggregating 418 bags have taken place from Morocco; spot price is about 120s. per cwt.

GINGER has met with a slow sale, and it is possible that slightly lower prices would be accepted for Cochín and Calicut, holders showing more desire to realise. Sales of African and Japanese have also been small, but prices are steady. Quotations for Jamaica are nominal, demand being slow.

GUM ACACIA is quiet but steady at 65s. per cwt. for half-hard Kordofan sorts and 70s. for cleaned on the spot. To arrive, business has been done at 54s. c.i.f. for sorts and 57s. c.i.f. for cleaned.

MENTHOL.—Throughout the greater part of the interval since our last report a subdued tone prevailed, as there appeared to be no authentic information available or confirmation of stocks in Japan being destroyed, and the spot price of the leading brands was maintained at 75s. per lb. Late on Tuesday, however, an order of 10 cases for America was executed at slightly below 75s., and this becoming known on Wednesday, sales were made at 75s. to 77s. 6d., some asking 80s. per lb. Several offers of goods to arrive have been made, including October-December shipment, at 50s., c.i.f., November-December at 47s. 6d., c.i.f., and January-March at 42s. 6d., c.i.f.

The exports from Japan during June amounted to 142 piculs, valued at 256,326 yen. During the six months ended June 30 they were as follows:—

To	1921 Piculs	1922 Piculs	1923 Piculs
British India ..	93	100	62
Great Britain..	227	169	111
France ..	35	11	39
Germany ..	24	33	52
United States..	580	372	765
Other Countries ..	90	48	66
Piculs ..	1,049	733	1,095
Yen ..	990,254	793,634	2,036,206

MERCURY.—Business has again been very dull, but the tendency is somewhat uncertain, there being no apparent pressure to sell on the spot at £8 15s. per bottle, which has been the nearest quotation, although some dealers are asking £8 17s. 6d. Only a little business has gone through for home use and export. Supplies, although not very heavy, are in excess of the demand. India has been inquiring, but the terms bid are too low to induce business. Imports for last month amounted to 1,250 bottles, making a total of 26,655 bottles for the eight months, which compares with only 8,189 bottles for the same period in 1922.

MUSK XYLOL continues to advance, and 12s. 6d. c.i.f. is being quoted to arrive. Sellers on the spot may still shade this.

PEPPER is quiet with fair black Singapore offering at 4½d. per lb. on the spot; to arrive, October-December and November-December shipment is quoted at 4½d. per lb., c.i.f., d.w. Sales of Lampong for October-November have been made at 3½d. to 3¾d. per lb. c.i.f. Fair Tellicherry spot is 4½d., and fair Aleppy 4½d. spot. White Muntok has spot sellers at 6½d. To arrive, sales of October-November and November-December shipment have been made at 6¾d. to 6½d. c.i.f. London. White Singapore is 6½d. per lb., and for October-November sellers quote 6½d. c.i.f.

PLATINUM.—There has been rather more demand, and the available supply being very restricted the tone of the market is very firm. The chief refiners quote £25 per oz., and raw metal is worth about £2 an oz. less. The demand in America has been more active, the price there being at around \$117 per oz.

SEEDS.—The following spot quotations were current on Wednesday: Spanish ANISE, 80s. to 85s., and Russian, 62s. per cwt. CANARY SEED.—Mazagan, 19s. 6d. per cwt.; Larache, 18s. 6d. per cwt. CARAWAY SEED.—Dutch, 117s. 6d. per cwt.; Morocco, 90s. CORIANDER SEED.—Sound 42s. 6d., and wormy 32s. 6d. to 37s. 6d. per cwt. CUMIN SEED.—Morocco, 120s. per cwt.; Malta, 120s.; and Indian, 93s. DILL SEED, 19s. 6d. to 21s. 6d. per cwt. FENNEL SEED.—Indian, 43s. to 45s. HEMP SEED.—Manchurian, 16s. 6d. per cwt. FENUGREEK SEED.—Morocco, 26s., and Palestine, 22s. 6d. per cwt. LINSEED.—Morocco, 22s. 6d. per cwt. MUSTARD.—English, 30s. to 35s. per cwt. Market in the main continues dull and quiet.

SHELLAC.—Under the continuance of generally bullish Calcutta cable advices, and a steady good trade demand on this side and decreased arrivals, the trend of the market has been kept on the firm side, and forward offers

are not being pressed, in spite of the recent considerable advance. The outlook is rather complex, while Calcutta is subject to a good deal of manipulation. The spot price of usual standard TN orange quality has advanced 5s. to 10s. per cwt., closing at 295s. to 300s. per cwt. AC cakey is 280s., and GAL 265s. For delivery the sales include October at 275s. to 300s., and December at 277s. 6d. to 297s. 6d. to 292s. 6d.

TARAXACUM.—New crop English is offering at about 80s. per cwt., and Continental at 56s.

STARCH PRODUCTS.—Dutch farina is steady at 14s. 9d. per cwt., and 14s. f.o.b. Maize starch powder is unchanged at 15s. 1½d. per cwt. Superior Dutch dextrin is 23s., and No. 2, 20s. Rice starch crystals is steady at £40. and Continental at £33 10s.

WAX (VEGETABLE).—Japanese is steady at 80s. per cwt. on the spot.

The exports from Japan during June amounted to 1,974 piculs, valued at 78,351 yen. During the six months ended June 30 they were as follows:—

	1921	1922	1923
Piculs ..	8,339	30,564	13,434
Yen ..	290,200	1,188,072	560,556

Essential Oils

BUSINESS is quiet and few changes have taken place during the week. French lavender will be much dearer this year, owing to the poor crop and small carry-over stocks. Jasmin oil will also be dearer. Bergamot oil is firmer. Japanese mint is a shade easier.

The following are the quantities and values of the essential oils (other than turpentine) imported into and re-exported from Great Britain for August 1923, compared with the same month in 1921 and in 1922, also for the eight months ended August 31, 1921-1923:—

		1921	1922	1923
August imports other	lb.	139,447	256,141	306,731
then turpentine ..	value	£31,814	£61,874	£93,447
Jan.-August imports do.	lb.	1,078,111	1,956,712	2,406,411
	value	£296,239	£517,416	£617,331
August re-exports do.	lb.	78,290	44,878	25,692
	value	£26,643	£17,700	£13,080
Jan.-Aug. re-exports do.	lb.	389,292	534,895	549,827
	value	£178,904	£249,137	£238,402

ANISE (STAR).—"Red Ship" on the spot is unchanged at 1s. 9d. per lb. and 1s. 8½d. c.i.f. to arrive.

ALMOND.—Genuine essential oil s.a.p. is quoted at 12s. to 12s. 6d. per lb.

BERGAMOT.—The prices quoted to arrive are firmer in some directions at from 12s. 3d. to 13s. per lb., c.i.f. to arrive for 37 to 39 l.a. On the spot, holders quote from 12s. to 13s.

BOIS DE ROSE (FEMELLE) is steady at about 10s. per lb.

CAMPHOR.—White essential has been selling at 75s. per cwt.

The exports from Japan during June amounted to 1,515 piculs, valued at 31,726 yen. During the six months ended June 30 they were as follows:—

	1921	1922	1923
Piculs ..	3,905	6,931	7,778
Yen ..	71,973	164,425	179,846

CASSIA on the spot is steady for 80 to 85 c.a. at 11s. 6d. per lb., and for shipment 10s. 6d. c.i.f.

CITRONELLA.—Ceylon on the spot is steady at 3s. 11d. per lb. Java is quoted at about 4s., and for shipment 3s. 9½d. c.i.f.

CLOVE.—English distilled is offered on the spot at from 7s. 3d. to 7s. 6d. per lb.

EUCALYPTUS.—Spot sales of 70 to 75 per cent. have been made at 2s. 6d. per lb.

GERANIUM is firm on the spot at from 29s. 6d. to 30s. per lb. as to seller for Bourbon; Algerian is obtainable at from 27s. 6d. to 30s.

JASMIN.—Flower oil, new crop, which is now being extracted, is likely to be both scarce and dearer. The flowers have suffered as a result of adverse climatic conditions. Instructions have been given to some of the London agents not to transact business without referring to headquarters.

LAVENDER.—The new crop French oil will be undoubtedly scarce and dearer. So far, distillers do not

appear to have fixed a price. Spot sales have been made at 18s. 6d. per lb., at which it would be difficult to find sellers. One holder quotes 20s. for 38 to 40 per cent. oil, but there is not a great deal to be had at the price.

LEMONGRASS.—Cochin is unchanged at 2½d. per oz. for spot and 2¼d. c.i.f. to arrive.

LEMON is unchanged for shipment at from 2s. 5d. to 2s. 7d. per lb. c.i.f. to arrive. On the spot about 2s. 9d. is asked.

MINT.—Japanese dementholised has been quiet throughout, and the tone is somewhat easier, Kobayashi-Suzuki offering at 12s. to 12s. 3d., which is a reduction of about 6d. on previous prices. Much of the recent advance is due to the fact that a London firm of manufacturing chemists has found it profitable to buy the 40 per cent. so-called dementholised oil and extract the menthol. An arrival of 80 cases has taken place in London via Antwerp. This is probably some of the goods consigned to London and unloaded at Antwerp owing to the strike.

The exports from Japan during June amounted to 114 piculs, valued at 43,002 yen. During the six months ended June 30 they were as follows:—

		1921	1922	1923
Piculs	:: ::	895	816	1,382
Yen ..	:: ::	220,741	219,488	536,078

ORANGE.—Sicilian sweet is steady on the spot at from 10s. to 11s. per lb., according to brand. West Indian sweet is offered on the spot at 9s. 6d. October shipment is quoted at 8s. 6d. c.i.f. to arrive.

PALMAROSA on the spot is quoted at 22s. per lb.

PEPPERMINT.—American natural tin oil is steady at 15s. per lb., and 14s. 9d. c.i.f. to arrive.

PEPITGRAIN.—Paraguayan is very firm, with small spot lots offering at 7s. 9d. to 8s. per lb. The price quoted for shipment is 7s. 6d. c.i.f.

SPIKE.—Spanish is selling at from 2s. 5d. to 2s. 6d. per lb. as to quantity.

Pharmaceutical Chemicals, etc.

No improvement in business can be recorded, but the position on spot keeps generally steady, and owing to a tendency on the part of Continental shippers to firm up their quotations most spot holders are showing little inclination to make further reductions for the present.

ACETANILIDE seems to be tending to higher rates, and already at least one dealer is quoting at 1s. 6d. up to 1s. 8d.; the latter price for small lots.

ASPIRIN.—The spot position seems very healthy, and little in the way of reliable material is offering below 3s. 1d. per lb., unless it is for a really big lot. A fair business has been done.

BARBITONE has dropped after some weeks of little demand; now quoted at 17s., at which level it is still easy.

BENZALDEHYDE .03 remains neglected, with dealers quoting unchanged at about 3s. per lb.

BENZOIC ACID is nominal on a lifeless market at 2s. 3d. to 2s. 6d. per lb.

BENZONAPHTHOL is seldom inquired for, dealers offering in the region of 5s. per lb.

BETANAPHTHOL holds up fairly well as quoted by dealers at about 1s. 10d. per lb., but business has not been at all brisk.

BORIC ACID.—British makers' prices to home trade are unchanged.

BROMIDES.—In some directions these products seem a little steadier, although there has been no marked improvement in demand. Ammonium holds at about 7d. per lb.; potassium, crystals and granular, is offering from 6d. per lb. and upwards; and sodium, crystals and granular, at about 7d. to 7½d. per lb., all B.P.

CALCIUM LACTATE has been fairly active in a small way, with dealers' prices well maintained in the region of 1s. 9d. per lb.

CHLORAL HYDRATE.—Duty paid is floating about, and one or two isolated lots might be a shade under the general quotation of about 4s. per lb.

CITRIC ACID (B.P. crystals).—A further week of practically no demand is recorded with still heavy stocks on

hand. In consequence of this and the buying season now being practically over it is difficult to arrive at actual selling prices. Quoted at 1s. 5d. per lb., at which level the market is very weak.

CREOSOTE, B.P., is fully maintained at last week's price of 2s. 5d. to 2s. 6d. per lb.

CREOSOTE CARBONATE keeps steady on a quiet market at about 8s. 3d. per lb.

GUAIACOL CARBONATE is a dull market, with dealers' prices in the region of 8s. 3d. per lb. unchanged.

HEXAMINE.—The lower rates mentioned last week are fully maintained and there seems to have been a little more inquiry. Continental offers seem to be firmer.

HYDROQUINONE has been quiet all the week, and with the buying season closing an improvement from the present rates of about 3s. per lb. is not looked for.

METHYL SALICYLATE keeps well up to its improved tone reported last week, and some dealers now ask up to 2s. 6d. for small lots, with 2s. 4d. to 2s. 5d. quoted for quantities.

METHYL SULPHONAL remains idle; quoted by dealers in the region of 14s. 6d. per lb.

MILK SUGAR.—In further reference to last week's paragraph we understand that there is only one maker in Holland—the Hollandsche Melksuikerfabriek, Amsterdam—and they are not withholding offers from this market as we stated. Prices of finest Dutch powder on the spot vary from 87s. to 89s. per cwt., and in ton lots for forward delivery 85s. c.i.f. is quoted.

PARAFORMALDEHYDE is perhaps just a shade easier, but this may be only a temporary and an isolated alteration. The general quotation is well up to about 3s. 6d. per lb.

PARALDEHYDE has been quiet in demand, offering on spot from 1s. 5d. to 1s. 6d. per lb.

PHENACETIN.—The lower price of 5s. 10d. mentioned last week for big lots is now difficult to find, and most dealers quote from 6s. to 6s. 3d. per lb.

PHENAZONE is fully maintained as quoted on spot at about 7s. 3d. per lb.

PHENOLPHTHALEIN is down a little on the week, and some supplies are said to be offering at 6s. 4d. to 6s. 8d. per lb.

POTASSIUM PERMANGANATE is a good market, with dealers' prices steady in the region of 10d. per lb. for B.P. The demand continues good.

RESORCIN is unchanged on the week, with little doing at 5s. 6d. to 5s. 9d. per lb.

SALICYLIC ACID, B.P.—The spot position seems a little firmer. Some lots might be obtainable on spot at last week's prices of 2s. 1d. to 2s. 3d. per lb., but most offers are a penny up on these rates.

SODIUM BENZOATE has not been inquired for; quoted at about 2s. 6d. per lb.

SODIUM DIETHYLBARBITURATE, although seldom called for, is quite steady as quoted at about 18s. per lb.

SODIUM SALICYLATE.—The spot position seems fairly steady, with not too much spot available; inquiry has been fair this week. Prices range from 2s. 5d. for quantities of powder up to 2s. 8d. to 2s. 9d. for crystals.

SULPHONAL is now mentioned at 14s. 6d. per lb.; this rate is nominal with no business recorded.

TARTARIC ACID.—With the spot quotation kept up to 1s. 2d. per lb., less 5 per cent., for B.P. crystals the position at this level is certainly weak. Business has once more been exceedingly small.

TERPENE HYDRATE holds up steadily as quoted by dealers at 1s. 9d. per lb.

Industrial Chemicals, etc.

London, September 19.

THE poorness of business is still the chief topic in this market. Prices are being fairly well maintained, and one or two items show a firmer tone. Some opinions favour firmer markets, owing to a tendency to higher prices coming to hand from the Continent.

ACETIC ACID remains at level prices with the position firm; stocks are not large, and there has been a fair demand; 80 per cent. technical, £47; 80 per cent. pure, £51; 98 per cent. glacial, £60 in casks and £73 in glass demijohns, ex wharf, London.

ACETONE.—British Government specification is a bright feature with dealers' prices firm at about £125 per ton with supplies limited.

ALUM, although showing no improvement in demand, seems firmer at the quoted rates of £10 to £10 10s. per ton for lump in casks.

AMMONIA (ANHYDROUS) has shown little life, dealers offering at about 1s. 5d. per lb.

ARSENIC.—After inquiries from all quarters, we are able to give a detailed account of the position of this market in all directions. Japanese material is offering on spot in the region of £60 to £62 per ton. Cornish, white powdered, is offering for early delivery at £58 per ton f.o.r. Cornwall. Offers of re-sale parcels from Germany have been received as low as £54 10s. The American position is quiet but firm at 10½ cents. In all quarters there is a feeling of uncertainty, and in consequence there are very few buyers about. Grecian could probably be secured at considerably below the figure given on forward shipments.

BARIUM CHLORIDE is a good market, although not very active; dealers quoted prices in the region of £15 per ton for 98 to 100 per cent. are firm.

BORAX AND BORAX GLASS.—There is no further change in British makers' prices for home consumers. Dealers are competing with some grades at slightly lower prices than those of the makers.

COPPER SULPHATE.—Export business does not seem to revive much, and the aspect of the market has been unfavourably influenced by the further considerable weakness in metallic copper. Home makers, however, are hardly disposed to sell at anything less than £25 per ton f.o.b. for casks, and terms range up to £25 10s. and even more. Exports for August were only 522 tons, this making the total for eight months 38,874 tons, against 37,248 tons for the corresponding period of last year.

CREAM OF TARTAR keeps up to its former levels of 87s. 6d. to 90s. per cwt., less 2½ per cent., in one-ton lots, and some moderate orders have been booked.

EPSOM SALT of commercial quality shows no sign of livening up, dealers quoting in the region of £5 per ton, in bags.

FORMALDEHYDE has been quieter and the position is somewhat easier. Dealers' prices are still quoted at about £75 per ton, but there are sellers below this figure.

LEAD ACETATE is fairly steady but business is small. Spot offers of brown are at about £40 and white at £41 per ton.

LITHARGE and RED LEAD are quoted by dealers at about £35 10s. to £36 per ton, and they seem quite steady markets, despite the lack of good business.

LITHOPONE keeps very steady, and not much is offering below the level of £22 10s. per ton for 30 per cent. Continental red seal.

POTASH CAUSTIC.—The spot position is much firmer here. A week or so ago one or two dealers were offering as low as £28 10s. to £29, but there has been a general move since, and the market is now steady in the region of £31 per ton for 89 to 92 per cent. solid in drums.

POTASSIUM CARBONATE remains slow of sale, and prices are if anything a shade weaker with 90 to 92 per cent. at about £26 10s. and 96 to 98 per cent. at about £30 per ton.

POTASSIUM CHLORATE is steady on quotation at 3d. per lb. There seems to be little buying, and as quoted the position is rather weak.

POTASSIUM PERMANGANATE is a good market with inquiry satisfactory; dealers quote steadily round about 9½d. to 9¾d. per lb. for commercial quality.

POTASSIUM PRUSSATE has been moving to lower levels in price for some time, having fallen from 1s. 7d. to 1s. in the last four months, but the market now seems fairly steady, although there is little business about.

SAL AMMONIAC tends firmer, as Continental prices are rising. Spot offers are at: dog-tooth crystals, £48 10s. to £49; medium, £43 to £44; fine white crystals, £25 to £26 per ton.

SODA CAUSTIC.—There is no further change in British makers' prices to domestic consumers on contract at 70 to 72 per cent., £16 17s. 6d., and 76 to 77 per cent.,

£18 7s. 6d. per ton, in drums, carriage paid in Great Britain. Their prices for export vary as to destination. Dealers are quoting unchanged at: 70 to 72 per cent., £17 10s.; 76 to 77 per cent., £19 10s. per ton, in drums, ex wharf, shipping port.

SODIUM ACETATE has been inquired for with dealers quoting from £24 10s. to £25 per ton.

SODIUM BICARBONATE from British makers for home trade only is steady at £10 10s. per ton, in bags, carriage paid in Great Britain.

SODIUM BICHROMATE for home trade is at 4½d. per lb., carriage paid from British makers.

SODIUM CARBONATE (washing crystals) from British makers for home trade only are quoted at about £5 5s. per ton, in bags, carriage paid to destination.

SODIUM CHLORATE remains slack with the average quotation at about 2¾d. per lb.

SODIUM HYPOSULPHITE.—Dealers' prices for pea crystals are firmer this week at about £14 to £14 10s. per ton, in one-cwt. kegs. Commercial quality is offering on spot at about £9 10s. C.i.f. offers are a little cheaper.

SODIUM PRUSSATE remains dull, with dealers asking about 6d. per lb., and probably willing to take a shade less.

SODIUM SULPHIDE.—Dealers have done very little in this article, but their prices are maintained at £14 for 60 to 62 per cent. solid and £1 more for broken, in drums.

SULPHUR.—There has been a steady demand and quotations are well maintained. American raw sulphur is quoted £5 7s. 6d. Terms for Sicilian flowers range from £8 17s. 6d. to £9 5s., and for roll from £7 10s. to £8 5s. c.i.f. for arrival.

ZINC OXIDES.—British makers report there is no change in their prices. B.P., £52 10s.; white seal, £44 10s.; green seal, £37 10s.; red seal, about £36 per ton, f.o.r. works.

COAL-TAR PRODUCTS, ETC.—Pitch has weakened with the market quiet. Other items show but little change with business still dull. ANILINE OIL and SALT remain at 9d. to 10d. per lb., packages free. Business has been slow. BETANAPHTHOL is quoted at about 1s. 1d. to 1s. 2d. per lb. with inquiry poor. PITCH has weakened after a week of dull markets; the East Coast quotation is well down to 125s. per ton. Pure METHYL ALCOHOL is steady with a fair inquiry, dealers quoting about £100 per ton, ex wharf, London. DISINFECTANTS remain unchanged at 3s. 9d. per gallon, barrels free, on a dull market. NAPHTHALENE is steadier with most offers about £19 10s. to £20 per ton. Crude, £5 to £11; crystals, £23; powder, £17; balls, £24; tablets, £28; candles, £28 per ton, packages free. HEXAMETHYLENE is rather quiet; dealers' prices are unchanged at about 3s. 9d. per gallon. PYRIDINE is fully maintained on spot in the region of 20s. per gallon, with supplies short. CARBOLIC-ACID crystals are steady but in little demand; quoted at 1s. 2d. per lb. f.o.b. in large bulk packing. CREOSOTE OIL has met with very little inquiry; quoted at about 9½d. per gallon f.o.b. TOLUOL has been flat with makers quoting 1s. 8d. to 1s. 9d. per gallon f.o.r. works in buyers' packages.

Fixed Oils, etc.

A NUMBER of items are now quoted at still higher levels, and throughout the market there is a fairly firm tone, acid oils, cotton, palm and soya being dearer; turpentine closes steadier; linseed is brighter. ACID OILS: A further slight advance in prices is recorded, with the market firm. Coconut and palm kernel, 38s. 6d.; groundnut is not being offered; soya, 35s. 6d.; all spot. CASTOR: Ex mills. Hull prices are maintained but are nominal. Pharmaceutical, 56s.; first pressings, 51s.; second pressings, 50s.; all spot, in not less than one-ton lots. French pharmaceutical is firmer at 63s. per cwt. in cases, and 60s. in barrels, ex wharf, London. COCONUT: This market holds firm with rates fully maintained. Deodorised, 47s., spot; Ceylon, 44s. 6d., c.i.f.; and Cochin, 56s., c.i.f. COTTONSEED: Further advances are recorded here, with business good and the market closing firm. Deodorised, 49s.; common edible, 46s.; soap-making, 43s.; crude, 33s.; all spot. GROUNDNUT: This market at the rates now quoted seems quite firm. Deodorised, 54s.; crude Oriental, 48s., c.i.f. LINSEED (raw, naked): Business has been a little better this week, and at the close prices showed a slight appreciation,

with the tone firmer. On spot, 42s.; September, 41s.; September to December, 40s. 3d.; October to December, 39s. 9d.; January to April, 36s. 9d.; Hull, on spot, 40s. 9d.; September, 39s. 10½d.; September to December, 39s.; January to April, 36s. PALM KERNEL: A firm tone governs this market, with business improved and prices fully maintained. Deodorised, 45s.; crude, 40s. 6d.; all spot. PALM: In the middle of the week this market became somewhat easier, but with a further period of good business the position has again hardened and closes firm at still higher rates. Lagos, 37s. 3d.; softs, 37s.; mediums, 37s.; hards, 37s.; bleached, 39s.; all spot. RAPE: The position has improved, and refined is dearer at 43s., with crude at 40s., all spot; market closes firm. SOYA continues to harden and further advances are recorded. Deodorised, 46s.; crude, 40s. 6d.; all spot. TURPENTINE (American): For some days prices had been moving upwards, but towards the close quotations became steadier. Total stocks in London have now reached the much higher volume of 14,760 barrels of American spirit. On spot, about 73s. 6d.; October to December, 74s. 9d.; January to April, 75s. 6d. WOOD: Hankow, in barrels, on spot, is steadier as quoted at 90s.

LUBRICATING, MINERAL AND BURNING OILS.—Lubricating oils tend to firm up on spot, with shipment prices for cylinder oils already moving up. Other products show no change on the week, with business generally slow. BENZOL shows no sign of better business, but makers' price of 1s. 4d. per gallon, f.o.r. works, in buyers' packages, seems quite steady. BURNING OILS: Crude No. 3, 8½d.; No. 2, 8d. per gallon, barrels free; quoted prices are unchanged on the week. FUEL OIL: 895 to 910 gravity, £3 10s.; 950 gravity, £3 10s. per ton, ex tank. SOLVENT NAPHTHAS remain dull and weak, although there has been no further decline in values, 90/160, 1s. 3d., and heavy 90/190, 1s. 3d. per gallon, drums extra. Naphtha is also a very quiet market, quoted unchanged at about 1s. 4d. per gallon. PARAFFIN WAX and SCALE: Wax keeps very steady at unchanged values of 2½d. to 3d. per lb., in bags, according to melting point. Scale is now very firm, with the shipment quotation at £15 15s. per ton, c.i.f. U.K. port. PETROLEUM OILS: American prime white, 11d.; American water-white, 1s. per gallon, barrels free; Russian prime white kerosene is steady and in fair demand at 6d. to 6½d., ex tank; 6½d. buyers' barrels, filled free, and 9½d., barrels free, ex wharf, London. PETROLEUM JELLIES: Snow white, £58 to £64; yellow, £20 to £26; red vet, £20; ruby red, £21; dark stiff green, £13 15s. per ton, barrels free, ex wharf, London. SPECIAL OIL for Diesels and motors, 10d. per gallon, barrels free; quoted rates are level on the week. WHITE OILS: Supplies remain short and prices are firm. Special No. 1, £44; No. 1, £38; No. 1 half-white, £33, in drums; No. 2, £27, in barrels, ex wharf, London. LUBRICATING OILS: The spot position, so far, shows no change, but shipment prices are much firmer, with an advance of about 10s. Spot prices: Pales, £10 10s. to £25; reds, £13 10s. to £23; dark cylinders, £14 10s. to £28; filtered cylinders, £19 10s. to £32; blacks, £7 10s. to £15 per ton, ex wharf, London, less 2½ per cent.; soluble oil, £18 10s. per ton, net. No. 1 RUSSIAN OIL is quoted ex wharf, London, at £18 10s. per ton, less 2½ per cent.

ANIMAL AND FISH OILS, TALLOW, ETC.—The better tone reported during the past week or two is fully maintained in tallow and a further advance is well held on a firm market. Fish oils seem quite steady, although rather slow in moving off. BONE GREASE: This market has had a good week of business and prices are dearer with the tone firm. Pale water, 35s. 6d.; brown water, 34s. 6d.; benzino, 34s.; all spot. NEAT'S FOOT OIL is steadier at the improved price of about 4s. 3d. per gallon. LARD OILS: Prices quoted are level on the week, with little doing. American E.W.S., 1 per cent., 73s. 6d.; 2/3 per cent., 67s. 6d.; English, about 3 per cent., 62s. per cwt., London. FISH OILS: This market keeps much steadier and prices for whale oils are dearer. Coast cod, on spot, 33s.; Japanese, in cases, c.i.f., 32s. 6d.; brown whale, spot, 32s.; dark whale, spot, 28s. 6d. There has been a fair inquiry on the market. TALLOW (Austrian): This market continues to hold up very well, and after the recent good auctions, at which further slight advances in prices were recorded, the tone has been very steady. Australian fine mutton, 43s.; sweet beef, up to 42s. 6d.; good mixed, up to 41s.; inferiors, about 36s. 6d. to 37s.; all spot. South American tallow: Last week's higher shipment quotations are steadily maintained. First beefs, 39s.; seconds, 37s., c.i.f. OLEO OIL is firm, with shipment prices now quoted up to 68s., c.i.f. OLEO STEARIN is also dearer, with South American No. 1 at 50s. and No. 2 at 49s., c.i.f. PREMIER JUS: The shipment price has advanced sharply during the week and closes firm. South American extra beef, 47s.; Australian mutton, 44s.

London Drug Auctions

Commercial Sale Rooms,
Mincing Lane, E.C.3 September 20.

A DRUG auction was held to-day after an interval of eight weeks, when moderate supplies were offered. The demand, however, was extremely poor, and prices in most instances favoured buyers. Common Curaçao aloes sold at much lower prices, but good liver was bought in at steady rates. Sumatra benzoin was steady but slow of sale. Buchu leaves were also steady, and cardamoms brought full prices, decorticated seed being dearer. Colocynth pulp sold cheaply. Good reed dragon's blood was in demand at firm rates; wormy ergot sold at about its valuation; gamboge was neglected, and honey sold very sparingly at distinctly cheaper prices, especially the lower grades. A large quantity of damaged Matto Grosso ipecacuanha was forced off at low prices, little sound being disposed of. Rhubarb was cheaper for common rough High-dried, other descriptions being neglected. Grey Jamaica sarsaparilla was 2d. per lb. cheaper, and native Jamaica 1d. per lb. easier. Timnevelly senna sold hand-to-mouth only without material change. Beeswax failed to sell. The following table shows the quantity of goods offered and sold, the asterisk denoting private sales:—

	Offered	Sold		Offered	Sold
Aconite root ..	17 ..	0	New Zealand ..	126 ..	8
Ac'onis herb ..	63 ..	0	Porto Rico ..	15 ..	0
Almonds ..	12 ..	0	San Domingo ..	94 ..	8
Aloes—			St. Lucia ..	8 ..	0
Cape ..	22 ..	0	Trinidad ..	65 ..	0
Curaçao (cs.)	115 ..	50	W. Indian ..	2 ..	0
Socotrane ..	1 ..	0	Ipecacuanha—		
Ambergris (oz.)	334 ..	0	Minas ..	16 ..	4
Ammoniacum (cs.)	3 ..	0	Matto Grosso ..	55 ..	31
Anise, star (cs.)	12 ..	0	Jaborandi leaves ..	65 ..	0
Anise (Russ.) ..	33 ..	0	Jalap ..	16 ..	0
Arnica flor. ..	12 ..	12	Jambul seed ..	21 ..	0
Bael fruit ..	21 ..	5	Kamala ..	19 ..	0
Benzoin—			Kola ..	125 ..	10
Palembang ..	40 ..	0	Laurel berries ..	6 ..	0
Siam ..	45 ..	5*	Lime juice (pns.)	6 ..	0
Sumatra ..	269 ..	17	Lime oil (chys)	2 ..	0
Buchu ..	27 ..	5	Lime tree flowers ..	20 ..	0
Calamus root ..	84 ..	0	Liquorice root ..	122 ..	0
Calumba ..	100 ..	0	Lycopodium ..	9 ..	0
Camphor (ref.) (ch.)	15 ..	0	Manna ..	14 ..	0
Cannab. ind.—			Marjoram ..	4 ..	0
Bombay ..	3 ..	0	Mastich ..	6 ..	0
African ..	29 ..	0	Musk seed (cs.)	5 ..	0
Cantharides (Russ.)	16 ..	0	Myrrh ..	98 ..	0
Caraway seed ..	6 ..	0	Nux vomica ..	75 ..	0
Cardamoms ..	154 ..	39	Olibanum ..	278 ..	0
Cascarilla ..	15 ..	0	Olive oil soap ..	20 ..	0
Cassia fistula ..	121 ..	0	Orange peel ..	78 ..	0
Cassia oil ..	5 ..	0	Orris (Flor.) ..	14 ..	0
Celery seed ..	10 ..	0	Patchouli bark ..	10 ..	0
Chiretta ..	20 ..	0	Quercus bark (pdr.)	4 ..	0
Cinchona bark ..	150 ..	32	Rhubarb (Ch.) ..	145 ..	19
Cinnamon oil (cs.)	2 ..	0	Sandarac ..	8 ..	0
Cocculus indicus ..	21 ..	0	Sarsaparilla—		
Colocynth ..	16 ..	11	Grey Jamaica ..	14 ..	9
Condurango ..	23 ..	0	Guayaquil ..	20 ..	0
Copaiba oil ..	20 ..	0	Mexican ..	10 ..	0
Cubebs ..	36 ..	0	Native Jam ..	65 ..	6
Cumin seed ..	71 ..	0	Sassafras bark ..	3 ..	0
Cuscuta ..	19 ..	0	Senna and pods—		
Cuttlefish bone ..	50 ..	50	Alex ..	83 ..	3*
Dragon's blood ..	62 ..	14	Timnevelly ..	392 ..	15
Elemi ..	44 ..	0	Simaruba ..	10 ..	0
Ergot .. (cs.)	29 ..	10	Squill ..	10 ..	0
Euphorbium ..	3 ..	0	Strophanthus ..	3 ..	0
Fennel seed ..	70 ..	0	Tamarinds ..	20 ..	0
Frangula bark ..	27 ..	0	Tonka beans ..	13 ..	0
Galls ..	17 ..	0	Turneric ..	126 ..	0
Gamboge ..	28 ..	0	Valerian root ..	11 ..	0
Guaiacum ..	33 ..	4	Wax (bees)—		
Guarana ..	4 ..	0	East African ..	107 ..	7*
Gum acacia (Ghatti)	115 ..	0	East Indian ..	114 ..	0
Gum Karaya ..	141 ..	0	Jamaica ..	17 ..	0
Gurjun oil (dms.)	46 ..	0	Mozambique ..	16 ..	0
Henna leaves ..	115 ..	0	Zanzibar ..	117 ..	0
Honey—			Witch hazel bark ..	6 ..	0
Calif. ..	3 ..	3	Which hazel leaves ..	2 ..	0
Cuban ..	51 ..	0	Wormseed ..	16 ..	0
Guatemala ..	2 ..	0			
Jamaica ..	953 ..	77			

ACONITE ROOT is selling privately at 72s. 6d. per cwt.

ALOES.—A lot of 52 boxes Curaçao sold at much lower prices, comprising dull to dullish liver to 37s. to 38s. per cwt. (one lot 39s.) Another lot of 37 boxes offered of which very good liver was retired at 95s., good at 80s. 6d. to 85s., ordinary dullish to fair at 65s. to 70s., and inferior dark livery 50s. to 60s. per cwt. A single

case of good hard glassy Socotrine in skins was bought in at £9 10s. per cwt; 22 cases Cape were bought in at from 35s. to 45s. for inferior to ordinary dull.

ARNICA FLOWERS.—Twelve bales sold at 7s. 6d. per cwt. without reserve.

BAEL FRUIT.—A lot of 21 bags damaged offered, and five sold at 3d. per lb. without reserve.

BENZON was steady. A parcel of 16 cases Sumatra, consisting of fine firsts packed with small almonds, had been sold privately. A single case of good seconds country cut sold at £7 7s. 6d. A bid of £8 is to be submitted for seven cases good almondy seconds of old fracture. Palembang was bought in at from 70s. to 90s. per cwt. as to quality. Five cases Siam had been sold privately.

BUCHU was about steady. Two bales fair greenish ovals slightly stalky sold at 2s. 9d., and for a bale of bronzy and very stalky long ovals 2s. 9d. was also paid. For fair green round, part stalky, 3s. was wanted.

CAMPHOR (REFINED).—A lot of 15 cases Chinese 2½ lb. slabs was limited at 3s. 8d. per lb.

CANNABIS INDICA.—Two cases fair Bombay tops were held at 17s., and for 19 bags African siftings 4s. per lb. was wanted.

CARAWAY SEED.—Six bags fair clean pale Norwegian were offered and bought in at 100s. per cwt.

CARDAMOMS.—A smaller quantity than usual offered and partly sold at firm rates; decorticated seed was 1d. dearer. The following prices were paid:—Ceylon Mysore, extra bold pale, 5s. 1d. refused, 5s. 4d. wanted; medium to bold palish to pale, 4s. 3d. to 4s. 9d.; small to medium pale, 3s. 11d. to 4s.; small to medium dullish, 3s. 6d.; bold pale splits, 3s. 10d.; medium ditto, 3s. 9d.; decorticated seeds, pale, 4s. 5d.; fine Bombay were held at 4s. 9d.; small round Calicut pod, 3s. 10d. refused, 4s. being the limit.

CHIRETTA.—Sales privately have been made at 5d. per lb.; there was no business in auction.

CINNAMON OIL.—A single case of Ceylon bark oil (genuine) containing 62 per cent. cinnamic aldehyde was bought in at 5s. 6d. per oz. A single case of genuine bark oil from the Seychelles was limited at 2s. per oz.

COCCULUS INDICUS.—For 21 bags fair 32s. 6d. per cwt. was wanted.

COLOCYNTH.—Five bales of good pale pulped were held at 1s. 2d. per lb. Eleven bales yellowish powdered sold without reserve at from 5½d. to 5½d. per lb.

CUBEBS.—Several parcels of fair quality were limited at from £12 10s. to £13 per cwt.

CUTTLE FISH BONE sold cheaply, a lot of 50 bundles dull to middling East Indian sorts selling at from 2d. to 3d. per lb.

DRAGON'S BLOOD.—A new lot of 29 cases reed from Singapore offered and 14 cases sold at £15 (one lot £15 2s. 6d.) per cwt. for thin nicely packed of good quality.

ERGOT.—Six bags of wormy Spanish sold at 10d. per lb. Sound was held at 1s. 3d., with the intimation that slightly less would be taken.

FENNEL SEED.—Fair East Indian was limited at 50s. per cwt.

GUAIACUM.—A single case of picked gum sold at 2s. 6d. per lb., at which price four more cases were available; 6d. was wanted for pickings. Three barrels of glassy and partly drossy lump sold cheaply at 6d. per lb.

GURJUN OIL.—A lot of 20 drums was limited at 10d. per lb.

HENNA.—For 78 bags small brown and stalky leaf 70s. per cwt. was wanted, and another lot of 37 bales was held at 65s. per cwt.

HONEY met with a slow sale, although a fair selection offered and prices were distinctly cheaper, particularly on the lower grades. Of Jamaica 553 packages offered and 91 sold, including white set at 52s. 6d.; biscuit set, 38s. to 45s.; sugary set of mixed colours, 35s.; fair amber liquid, 33s. to 35s.; dark amber liquid, 32s. 6d.; fermenting, 25s. per cwt. Of New Zealand 152 cases offered

and 8 sold, including pale set at from 42s. 6d. to 45s. California, 3 cases offered and sold at 34s. for pale set and slightly sugary without reserve; 94 packages San Domingo offered and 8 sold at 35s. for amber liquid.

IPECACUANHA was about the only feature of the sale, 31 bales mostly damaged Matto Grosso being disposed of; 14 bales slightly sea-damaged and grease-damaged sold at from 5s. 7d. to 6s. per lb. (one lot 6s. 1d.), and 12 bales badly water-damaged at from 2s. 1d. to 2s. 8d. (one lot 3s. 5d.). A bale of good bright leanish sound sold at 7s. 3d. A new lot of 16 cases of Minas character offered, of which four sold at 6s. 9d. to 6s. 6d. per lb.

JALAP.—A parcel of 16 bags Vera Cruz (basis 14 per cent. resin, Harrison's test) offered and bought in at 2s. 2d. per lb.

KAMALA.—Four cases were limited at 2s. 9d. per lb.; 5 bags were bought in at 3s. and 7 bags sifted at 5s. per lb.

KOLA is selling privately at 2½d. per lb. Ten bags of fair West Indian halves sold cheaply at 1½d. per lb.

LIME OIL.—Two carboys fair West Indian distilled offered, and held at 3s. 6d. per lb.

LIQUORICE ROOT.—A parcel of 122 bales natural was retired at 35s. per cwt.

MYRRH.—The offerings included four bags fair slightly blocky sorts of Aden character, for which £7 10s. was wanted.

NUX VOMICA.—A lot of 20 bags fair Madras offered and held at 15s. per cwt., a bid of 10s. being refused; 55 bags fair Calcutta were retired at 17s. per cwt.

OLIBANUM.—Good drop was limited at 75s., fine siftings at 60s., and garblings at 55s. per cwt.

RHUBARB met with a slow sale; 14 cases of medium to bold common rough round high-dried with seven-eighths dark fracture sold cheaply without reserve at from 8d. to 9d. per lb., being fully 6d. per lb. below valuation. A further five cases sold without reserve, comprising two cases medium to bold Canton with seven-eighths greyish pinky fracture and one-eighth dark at 1s. 6d., and three cases small to medium ditto at 1s. 5d. Medium to bold round orange-coated Shensi with three-quarters good pinky fracture was held at 3s. 9d., at which private sales have been made.

SARSAPARILLA.—Privately prices during the auction interval have been easier, native red Jamaica selling at from 1s. 7d. to 1s. 9d. per lb. In auction six bales native sold, comprising ordinary dull yellow and red mixed at 1s. 6d. per lb. Fair red was obtainable at 1s. 8d. The "Culebra" has brought 37 bales native from Jamaica. Of grey Jamaica nine bales sold at 2s. 4d. per lb. for fair, being 2d. per lb. cheaper than last auction.

SENNA.—A small proportion of the offerings consisted of new crop Tinnevely, five bales of which sold at 6½d. per lb., subject to sellers' approval, for good bold greenish leaf. Ordinary small yellowish sold at 2½d., and common yellowish at 2d.; medium to bold but of poor colour was held at 3½d.; 21 bales dark partly sea-damaged pods were limited at 3½d. to 4d. per lb. Three bales of good bright pale Alexandrian pods sold privately at 1s. per lb.

SQUILL.—A lot of ten bags pale yellowish dry offered and held at 30s. per cwt.

TAMARINDS.—A lot of 21 barrels dry Antigua were limited at 20s. per cwt.

WAX (BEES') was quite neglected. The offerings included 17 packages Jamaica, fair mixed colours, of which was obtainable at £7 per cwt.

Japanese Camphor

The Commercial Counsellor at Tokio reports that during 1922 the camphor export trade showed a marked recovery. The exports of camphor in 1922 amounted to 36,000 piculs, compared with 14,000 piculs and 10,000 piculs respectively in the two previous years, whilst during the March quarter of this year the exports amounted to 14,000 piculs. A large proportion of these exports went to the United States, India and Germany coming next on the list.



Pharmacy in Ireland

—In Mr. Hewton's letter (*C. & D.*, September 15, 1923) he states that "so far as he knows the general meeting of the Northern pharmacists was called unofficially by some private individuals on official paper." He, in reply, is making an error. May I, as hon. secretary of the North Irish Pharmacists' Association, inform you that the meeting of the Northern pharmacists in September was called "officially" and under the auspices of the N.I.P.A.? If Mr. Hewton, who is a member of the N.I.P.A., had attended N.I.P.A. meeting on August 3 he would have had an opportunity of hearing the report of the representative (Mr. M. McDonald) at the recent Office Conference. At the August meeting it was unanimously decided to call a general meeting of Northern pharmacists on September 5 to discuss the whole question. I went on holiday immediately after this, and Mr. McKinsty acted as hon. secretary in my place.

Yours truly,

A. MORRIS.

elfast.

—In your report of the meeting of the N.I.P.A. on September 5 it is stated that I was appointed secretary of the committee formed to carry out the decisions arrived at at that meeting. That is incorrect. I acted as convener of the general meeting during the temporary absence of the hon. secretary (Mr. Morris) on that day. Mr. Morris was back in time to act at the general meeting. The general meeting was called by action of the N.I.P.A. Committee, and not by any "private individuals," as Mr. Hewton suggests. If members attended committee meetings regularly they would not so quickly arrive at erroneous conclusions. My list of new committee formed is also incomplete. It comprises the following:—Messrs. Connor, Hardy, James, A. Wilson, McDonald, Mann, Guiler, Lancashire, (Derry), McKinney (Cookstown), Taylor (Enniskillen), and Morris (hon. secretary N.I.P.).

Yours faithfully,

R. G. McKINSTY.

elfast.

Ceylon Citronella Oil

—With reference to a market report appearing on page 395 of last week's issue of the *C. & D.*, under the heading "Citronella," I wonder whether a portion of the paragraph was given full consideration, in all its facts, by those responsible for publishing it? It is stated that the "Citronella Oil Ceylon now arriving in America"—incidentally, it is only a matter of a small quantity coming from America—"is better than that which normally comes on the English market, buyers are apparently being willing to pay for a less sophisticated article." Even if the English importers were unable to get as good an oil as the American importers are the English consumers not capable or strong enough to protect their interests against such inferior importations? It is not stated that the oil which has recently been coming in, and which contains more or less of it, has generally come from Colombo firms who have previously exported this oil from Ceylon to England before, and that it does not come from the normal and more regular exporters of Ceylon citronella oil into England. There is an exception to this, it will probably be found that such a firm has also not been extra careful in its selection of oil in the past. I have just tested one of these American importations, and find that it, too, contains spirit! Wherein, then, does its superiority lie as compared with the English importations of inferior quality? I wish to say, as one of the few regular importers of citronella oil of long standing in this country, that my oil has in no way come behind any average importation of good so-called "soluble" oil of past years, and have I received a single drum of oil containing spirit

from my own shippers, although I have recently imported a large quantity.

Yours faithfully,

W. NAUMANN.

London, E.C.

[We understand that much inconvenience and loss of trade has been caused to some Ceylon shippers and importers as a result of this adulteration with alcohol. Further, all shipments are now being examined by the Customs authorities for alcohol, as a matter of routine, and if this is present, the oil will be held for payment of duty at the full rate on perfumed spirits, namely, £6 a gallon.—EDITOR.]

Purchasing Drugs for China

SIR,—In your issue of September 1 an article by Mr. John Cameron appears under this heading. Being British, and having had many years' experience in China, I think, in the interests of common fairness, it is only just that the impressions likely to be produced by this article should be somewhat toned down. On reading through the article my first impression was that the title was particularly ill-chosen, as it gives a generalised appearance to a set of purely localised circumstances, and what Mr. Cameron calls "Purchasing Drugs for China" really means "The purchase of drugs and chemicals for Mr. Cameron's particular institution." The article in question opens by giving a list of the difficulties connected with Mr. Cameron's business life in China, and these are listed Nos. 1 to 7. As an old importer into China I can quite appreciate his troubles and fully sympathise with him, but after a few years' residence following on a close study of local conditions these hardships gradually fade away as one gets a true perspective. Mr. Cameron in his article then takes up two more important points:—(1) The question of breakages in transit; (2) the ever-recurring question of prices. Mr. Cameron appears to have been particularly unfortunate in the matter of breakages in transit. Breakages are always a great inconvenience to the consignee, but they are purely incidental. It has been my unflinching experience in twenty years of this class of business that the packing departments of the drug and chemical houses of Great Britain engaged in the export business hold pride of place. The shipments from the larger wholesale export houses rarely exceed 1 per cent., and I have known many shipments arrive from London in which no single breakage was recorded, and all these were shipments containing quite as many packages as the shipment mentioned in the article, and they cover the same class of goods. Mr. Cameron's experience of breakage in British shipments is the exception rather than the rule. I have repeatedly had the experience brought home to me that British packing is far superior to that of American and German shipping houses, and, furthermore, that when breakages do occur British shipping houses deal with the question in a far more reasonable manner than any other nationality on earth. Mr. Cameron then proceeds with the vexatious question of "laid down costs"; this is always a prime factor, particularly so when one's bread and butter depends on it. He tries to show that German prices for drugs and chemicals are consistently lower than those pertaining to the same lines purchased from America and Britain. He sets out in tabular form the relative prices from each seller on his particular indent for a series of articles, taken at random, from his German invoice. In this table of figures there is so much scope for fallacy that a thinking man can hardly accept it without more precise knowledge of the way in which the prices were worked out. I take it that the German prices were taken from his invoice covering the actual shipment of goods, and it would be interesting to know how Mr. Cameron worked out his prices for the columns representing America, Great Britain and Shanghai. Did he issue tenders? If he did so (and that is the only way in which prices could be truly compared) and then published figures to the detriment of his American, British and Chinese friends, I consider it a great business discourtesy, to say the least of it. It has always been my experience that British houses can do in the way of prices just what the Germans can, or any other nationality

for that matter, with the exception of a few lines, such as bromine, picric acid and things of that type. This question of buying drugs and chemicals as cheaply in Britain as in Germany is not a myth; there are several houses to-day willing to do as well in the matter of prices as any firm in existence. A little business tact is all that is required. If Mr. Cameron thinks that by rushing into print (and incidentally giving the Germans a cheap advertisement) he is doing British business a service, all I can say is that his outlook on life is far too generous. It is up to him to tell the whole story of a long continuous experience and not deal with what is merely a single transaction and try to show that "the German is the salt of the earth" as far as the chemical industry is concerned. There are so many factors governing business in Europe in these days, the conditions are quite abnormal, and it is quite unfair to quote as a standard such a period of trade as we have experienced in the past few years. With apologies for taking up so much space and enclosing my card, I am, sir, yours very faithfully,

"CATHAY."

Lin. Terebinth

SIR,—My suggestion that the gelatinisation of lin. terebinth may be prevented by reducing the percentage of soft soap (*C. & D.*, May 12, p. 666) is criticised by your subscriber, "J. W." (*C. & D.*, September 8, p. 371), on the assumption that the soap reduces the irritating effect of the turpentine. I think he is confusing the "lubricant" action of the soap with the "emollient" effect of fixed oils. Any pharmacologist would inform him that the action of soap on the skin is that of an alkali, and, indeed, this effect of soft soap is made use of in the treatment of chronic skin diseases, with thickened epidermis. Some of my medical friends object to the presence of any soap in this liniment, and for them I supply a modification of the old Edinburgh liniment, under the name, lin. tereb. tusc. The formula I use is:—

Resin ointment	...	...	...	6 oz.
Camphor	...	...	...	1 oz.
Oil of turpentine to 20 ounces				

The lubricant and emollient effect of the ointment allows more efficient rubbing, without any of the alkali action of soap.

Yours faithfully,

London, S.E.

WM. A. KNIGHT.

Slackness in British Pharmacy

SIR,—"Puzzled" (*C. & D.*, September 15, p. 399) refers to "the large numbers in pharmacy who run businesses and yet do not possess the legal qualification." Personally, my thoughts are more of those who do possess the legal qualification, but find their business of secondary importance. It is no uncommon occurrence to find Mr. M.P.S. making his first appearance of the day about 10 a.m.; dinner at 1 p.m. breaks what would otherwise be a rather monotonous day, and to all inquiries, "Oh! he's usually back about three." And if business is worse than that he might as well ring up Bob Kruschen and get that tie played off on Thursday, for business of that kind should not be allowed to interfere with the statutory half-holiday. And what with a Federation meeting on Wednesday, a Masonic presentation on Thursday evening, a day's golf at Gleneagles, he thanks Heaven that one of the Commandments says, "Six days shalt thou labour, and on the seventh thou shalt be on duty from two until four." Whereas in England the Pharmaceutical Society seems to have fallen asleep, in Scotland it is apparently dead. Otherwise it might be surprising that the nobility of our craft can shut their eyes to such glaring infringements of the Pharmacy Acts. Perhaps there is little hope for a calling the majority of whose members have sold their birthright for a "good supply of advertising material." And who knows but one fine day a man of Islington may arise in our midst; then the heather will be on fire, and the unemployed will live happily ever after.

Yours faithfully,

WALLACE THE BRUCE (19/9).

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Appreciations

Please accept apologies for delay in sending cheque for another year; and may I add it is well worth the amount charged? It is the only trade journal I know that gives 100 per cent. proficiency for its money. More power to your good work.—*L. S.* (29/9).

I should like to say how necessary and useful I have found the *C. & D.* in helping on my business, keeping things up to date; and in scores of ways it has been a never-failing help when difficulties have arisen. Your advertisers have little idea how valuable it is to buyers in distant parts of the world to be kept posted of "the latest" new things. My father was a subscriber to the *C. & D.* when I was a boy, and I am now sixty; two of my brothers are also chemists and still run the original pharmacy. Our *C. & D.* food has agreed with all of us.—*J. S.* (7/8).

A Case of Super-Saturation

I was managing a drug store some time ago, and one day a customer called with a recipe to fill, one of the ingredients being potass. carb. On taking down the shop bottle the contents had assumed a liquid form, as it has a way of doing. To my surprise, when I released the stopper and tilted the bottle to pour out some of the contents the liquid was converted into a damp crystal form. I have often wondered what this process meant.—*Puzzled* (25/8).

Drying Medicine Bottles

Interested (19/9) writes: I have noticed in a technical weekly a hint in reference to drying bottles, which, having tried, I venture to pass on. Imagine something of this kind: A number of stout wires or knitting needles with their points thrust into a slab of cork or soft wood. On these wires one fixes the bottles to be dried, and the moisture drains out to some extent, but to dry promptly and with certainty it is recommended to insert into the mouth of the bottle a wedge-shaped piece of thin card. This divides the channel into two, through one of which air will now enter and circulate and return through the other, thus stimulating the drying. Of course, the apparatus should be set up in a spot reasonably airy.

Emulsifying Dried Milk

A correspondent (*C. & D.*, August 18, p. 261) drew attention to the difficulty experienced by those who wish to reconstitute dried milks for drinking purposes in small quantities in the home; he pointed out that while machines are well known and successfully used on the large scale in hospitals and similar institutions, no small and cheap apparatus exists by which an Englishman in the tropics, for instance, could readily make from Glaxo a pint of milk for immediate requirements. The proprietors of Glaxo have been experimenting with a small machine, which is extremely simple, and fulfils the conditions demanded by the correspondent referred to. It consists of a container, in which the correct quantities of Glaxo and hot water are placed; inside this a specially shaped mixing disc is mounted, capable of being rotated at high speed, either by an electric motor or by hand. The effect of the rotating disc is such as to cause the fat globules to be broken up, and so reduced in size as to prevent fat separation for some hours. The milk is also thoroughly aerated, and the combined effect of the emulsification and aeration so greatly improves the flavour of the reconstituted milk that it is practically impossible to detect the difference between it and ordinary milk in tea or coffee. The apparatus is at present only in the experimental stage, and is not on the market; perhaps readers of *THE CHEMIST & DRUGGIST* who are interested would care to express their views as to whether they consider there would be any demand for such a machine. A hand-driven machine could be sold at about £2. It could be used also for making pharmaceutical emulsions and mixtures.

Legal Queries

M. & Co. (13/9).—The supply of "dangerous" drugs to a third party for re-sale would be a wholesale transaction, and, as such, requires a licence from the Home Office.

W. P. (6/9).—Preparations of opium should be entered under opium in the D.D.A. Registers, but preparations of the alkaloids of opium are entered under morphine.

W. D. C. (8/9).—*TR. CHLOROF. ET MORPH. B.P. '85* is outside the Dangerous Drugs Act, but still a Part I poison, because it contains 0.125 per cent. of hydrocyanic acid.

G. P. (28/8).—The proposed wording for showcard and label for the athletes' embrocation would not, in our opinion, render the article liable to medicine stamp duty.

Hypo (13/8).—In Ireland the retail sale of Cooper's sheep dip and of Mather's fly-papers, as in Great Britain, is governed by the conditions laid down in Part I. of the Poisons Schedule.

W. S. H. (5/9).—There is no reason why you should not use Fowler's solution (a Part I. poison) in a proprietary article, but it would involve the registration of the sales in accordance with the conditions of the Pharmacy Acts.

G. H. M. (1/9) and *T. D. Co.* (13/9).—D.D.A. LIMITS FOR PESSARIES.—The correct figures for 120-grain pessaries are opii pulv., 0.16 gm. or 2½ gr. each; ext. opii, 0.08 gm. or 1½ gr. each. Those given on the D.D.A. Card for these two drugs being for 30-gr. pessaries. We shall be glad if chemists who have purchased the new card will please note this correction.

J. H. D. (17/8) and *A. T. R.* (62/17).—*Ung. gallæ c. opio* being exempted from the Dangerous Drugs Acts by Regulation may be in the possession of anyone, but it may only be sold by a qualified chemist. No entry of sale or purchase is necessary in the D.D.A. Registers.

Nemo (73/16) has in his employ a lad who is over sixteen, but under eighteen years of age. What part of the weekly unemployment insurance contribution, payable in respect of the lad, must be provided by "Nemo"? [Out of the total weekly contribution of 9½d., "Nemo" must pay 5d.]

T. C. D. (7/9).—SALES OF "DANGEROUS" DRUGS TO DOCTORS.—If the doctor signs the poisons book he complies with the law. The signed order method is an alternative one legalised by the Dangerous Drugs and Poisons (Amendment) Act, 1923, in order to simplify certain transactions.

W. P. (7/23) and *R. C.* (10/9).—Diluted tr. opii (3j.-3j.) is a poison within the meaning of Part II. of the Poisons Schedule, and does not require a signature. By a *lapsus calami* we stated incorrectly (*C. & D.*, September 8, p. 371) that the diluted tincture could only be sold under Part I. conditions.

Private (23/8).—*Ung. calomel c. morph.*, L.I.P., is not given on the *C. & D.* Poisons Card No. 4, dealing with the Dangerous Drugs Acts, but data is given from which the strength can be deduced. The ointment contains 1 of the morphine salt in 211, and is therefore within the Dangerous Drugs Acts.

M. R. C. (5/9).—You cannot give a title to a "known, admitted and approved" remedy other than that under which it is registered. On the other hand, it is easy for you to register a formula by the method referred to on the first page of this issue, but the title must not include a personal name in the possessive case.

R. B. (13/9).—As you have a qualified chemist as a partner it would seem the simplest way to form your business into a private limited company if your trade in statutory poisons with doctors is sufficiently large to warrant this. The qualified partner would then become the "superintendent," or director, as required by the Poisons and Pharmacy Act, 1908.

M. T. (21/8).—The wording of the mouth-wash label appears to us to render the preparation to which it is affixed liable to medicine-stamp duty. This is because of the use of the words "septic conditions of the mouth and gums." Some years ago the Board of Customs and Excise informed us that "scurvy of the gums" is an ailment, and we think the expression on your label is on the same lines.

A. S. (2/9).—The branch business of a qualified chemist can be supplied with "dangerous" drugs without a Home Office licence if the main business acts as the purchaser and merely transfers the drugs to the branches without a sale taking place. A record must be kept in the form laid down in the Dangerous Drugs Act Regulations of the drugs sent to the branch shop, and on the part of the branch shop of the drugs received.

R. M. (16/8).—(1) All sellers of proprietary medicines require patent-medicine licences. (2) A firm of persons not qualified under the Pharmacy Act cannot in England legally carry on the business of a chemist and druggist, one of the chief functions of which is the sale of scheduled poisons. It does not suffice for a firm to employ a qualified person, but the Poisons and Pharmacy Act, 1908, make provision for this in the case of limited companies.

Lyceum (10/9).—Prescriptions given under National Health Insurance and containing scheduled poisons need not now be copied, Section 4 (1) of the Dangerous Drugs and Poisons (Amendment) Act sanctioning this departure from the conditions laid down in the Pharmacy Acts. The ground for the exemption appears to be that these prescriptions can easily be referred to at the Pricing Bureaus for a limited period if required. Private prescriptions, Ministry of Pensions prescriptions, etc., containing scheduled poisons must be copied as heretofore.

J. B. & Co. (12/9).—The Pharmacy Acts do not prohibit the sale of scheduled poisons by wholesale to persons who are not chemists. Many industries using large quantities of such articles as potassium cyanide and oxalic acid have legitimate uses for them. It is only the Dangerous Drugs Acts that prohibit the sale of those Part I poisons that are covered by the Acts. We have heard it argued that the expression in the Pharmacy Act, "sale by wholesale to retail dealers," can only apply to qualified chemists. If this is so, it is obvious that no wholesaler can sell scheduled poisons for industrial purposes, nor can a manufacturer sell to a wholesaler.

M. W. (16/8).—The wholesale house, in getting the order form for Part I poisons filled in, is trying to keep within the new reading of Section 17 of the Pharmacy Act, 1868, and as the strict letter of the law cannot be carried out, the signing of the requisition appears to be a satisfactory compromise. As regards your sales of articles containing scheduled poisons, strictly speaking, your customers, other than retail qualified dealers, should sign the Poisons book, but, on the other hand, you as wholesalers are not required by law to keep Poisons books, hence the anomaly. Until the difficulty is overcome by a further amendment of the poison law, it is considered better that the wholesaler should protect himself so far as he can reasonably do so.

M. M. (6/9) asks if he is entitled to deduct in making his income-tax return his subscription to the Retail Pharmacists' Union and the Pharmaceutical Society, and also his *C. & D.* subscription. [The question of whether any subscription of this kind can be deducted depends upon whether it is a trade expense—that is, whether it was an expense incurred for the purpose of earning or assisting to earn the income which is being taxed. If "*M. M.*" can show that the assistance he gets from the *C. & D.* is a factor in enabling him to make the income he enjoys, then the subscription should be an allowable deduction. As regards the R.P.U. and Pharmaceutical Society, if the subscriptions when received by the Union and Society are put to uses which would be allowable if expended by "*M. M.*" himself then these would be an allowable deduction in his income-tax return.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

F. H. B. (30/7).—ANÆSTHETICS FOR ANIMALS.—Chloroform is considered the best anæsthetic for horses, but for dogs ether is largely adopted. Before anæsthetising a horse food should have been withheld for some time, so that the stomach is not loaded with food; the animal should be cast before administration, there should be no impediment to respiration, and it is advisable to warn the owner of the animal that there are risks in the operation. The vapour of chloroform is usually well diluted with air, the apparatus sold for the purpose consisting of a bellows which drives air through a graduated bottle containing chloroform. The diluted vapour is then conveyed by a rubber-tube to a capacious nose-bag on the animal's head. Concentrated chloroform vapour is also used with the purpose of lessening the time taken to produce anæsthesia (see also *C. & D.*, I., 1923, p. 444). As a local anæsthetic eucaine or a similar product is employed, using a solution of β -eucaine $4\frac{1}{2}$ gr. per oz. with a trace of adrenalin; quantities of mx.-mxx. are injected round the region to be rendered anæsthetic. Veterinary tablets, which are very convenient, are sold for the purpose. Before firing a horse, cocaine injections are used.

B. R. (14/8).—FILTERING AQUEOUS MIXTURE CONTAINING BENZOIN TINCTURE.—A flannel or felt filter bag permits resinous matter to pass somewhat freely in initial stages of filtration. If it is desired to have the solution quite free from sediment, the bag should be first lined with pulped filter paper (filter paper pulped with mixture in pail of water and poured on to filter bag). The first runnings should be returned to filter until the desired clarity in filtrate is attained.

E. T. J. C. (23/8).—GRAMOPHONE RECORDS are composed of a mixture of carnauba wax, ceresin and shellac. In some cases metallic oleates are used. Each maker has a special composition, but what it is made of is not made public.

A. N. W. (24/23).—ALLOXAN is a harmless substance for giving a "blush" effect to the skin. It is used as a liquid, as stated in "Pharmaceutical Formulas," or by adding it to cold cream in the proportion of about 1 per cent. If too much is used the colour is purplish, but dilute nitric acid removes it.

Pertinax (19/6).—There is no object in using permanganate for "disinfecting" the hair; the resorcin hair-wash is an efficient antiseptic.

J. H. Q. (31/7).—SUNBURN PREVENTIVE.—The skin cream of the type to which you refer contains a trace of quinine or other fluorescent substance which is supposed to alter wave-lengths in the ultra-violet rays and render them incapable of causing sunburn.

Norfolk (25/7).—(1) FLY DESTRUCTION.—A one per cent. solution of sodium salicylate is stated to be as deadly to flies as formaldehyde solution. It has the advantage of being non-poisonous to animals. The liquid is placed in saucers with a piece of bread in the centre. *Lefroy's solution* for destroying flies is a two per cent. solution of sodium or potassium arsenite, with ten per cent. of treacle. Sticky fly-papers might also be freely used, a cheap form of the "gum" being made by boiling together castor oil one part, and rosin two parts. This can be thinned with ether, if necessary. (2) **BOOKS ON DOMESTIC MEDICINE.**—Latham's "Dictionary of Medical Treatment" (Churchill); Grimshaw's "People's Medical Guide" (Churchill); Thomson and Steel's "Dictionary of Domestic Medicine" (Griffin).

E. W. (27/8).—PRIVATE MARKS.—We have published on various occasions lists of private pricing marks used by chemists. The most popular one is "Melboracis," which has been in use for many years, and is the one which chemists use for pricing prescriptions on the *C. & D.* Costing System.

P. D. G. (4/9).—ECZEMA OINTMENT "P.F. 8."—The following is the formula for which you ask:—

Zinci oxidi ...	...	...	3ij. 3v.
Liq. carbonis deterg.	...	...	3xss.
Lanolin ...	...	...	3xvj.
Carmini ...	...	...	q.s.

J. F. M. (26/8).—IDENTIFICATION OF PLANT.—The plant which you send and state to be "of poisonous nature and very detrimental to animal life being common in the grass" is yarrow (*Achillea Millefolium*). The statement as to its poisonous properties must, however, be founded on some misconception. Yarrow is one of the plants largely used by herbalists, so much so that it has been found necessary to cultivate it, although the wild plant is common enough in this country. In Potter's "Cyclopædia of Botanic Drugs," it is stated to be diaphoretic stimulant and tonic, and most useful in colds and obstructed perspiration and at the commencement of fevers. According to Barton & Castle's "British Flora Medica," "The Greeks ascribed its discovery as a remedy to Achilles and pretended that by it he healed the wounds of his companions in arms." To this legend doubtless the plant owes its name of *Achillea*. In later times its reputation as a styptic and astringent has been revived by Stahl, Hoffmann, Buchwald and Chomel, who have severally recommended it in hæmorrhage from the stomach, lungs and uterus, and in dysentery. Parkinson says if it be put in the nose, assuredly it will stay the bleeding of it, hence possibly its name of "nosebleed"; although this name has been attributed to it from an exactly opposite point of view! Forby says that in East Anglia a girl will tickle the inside of the nostril with the plant, saying:—

Yarroway, yarroway, bear a white blow.

If my love loves me, my nose will bleed now.

Fernie says that its name of yarrow is derived from the Greek, meaning holy herb, and that the old English name was Gearive. If the plant was used by Achilles, the derivation of the English name yarrow from the Greek *iera* seems both possible and probable. Planchon and Collin state that the hæmostatic properties of this plant have been considerably exaggerated, but it is noteworthy that *Achillea moschata*, Jacq., has a great reputation as a vulnerary amongst the Savoyards; that the bed of *A. atrata*, L., and *A. mana*, L., are used in the Alps to cure diarrhœa, and that *Achillea Parmica*, L., is used in the form of snuff as a sternutatory. The last-named is a common British species in damp places, and may more properly be the yarroway of East Anglia. *Achillea Millefolium* has been found to contain an essential oil and a glucoside achillein. Considering that yarrow has a reputation that has lasted probably over 3,000 years, and that it is still largely used, it would seem to be one of our native herbs well worth investigation as to the physiological properties of its glucoside and essential oil.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," September 15, 1873

Medical Women

The lady students are now in worse straits than ever. They have been finally defeated at Edinburgh, and no other British school seems willing to receive them. Miss Jex Blake is still hopeful, however. Mrs. Garrett-Anderson suggests Zurich, but Miss Blake thinks she will find an opening at home yet. She and her friends are now trying St. Andrews. The "Times" argues out the whole case in oracular fashion, and "would be sincerely glad if medical practice (for women) were found to realise all that Mrs. Anderson and Miss Jex Blake anticipate from it." But looking at the question from a practical point, the "Times" decides that there are special gifts and qualities—we are not told what—which women do not possess, and which are absolutely necessary for the success of a physician. All this is nonsense: it simply ignores the strong point on the other side, that there are special medical duties, such as midwifery, diseases of women, etc., which it would be far more fit and proper should be discharged by qualified women, than as now universally by men.



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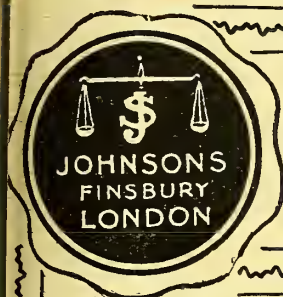
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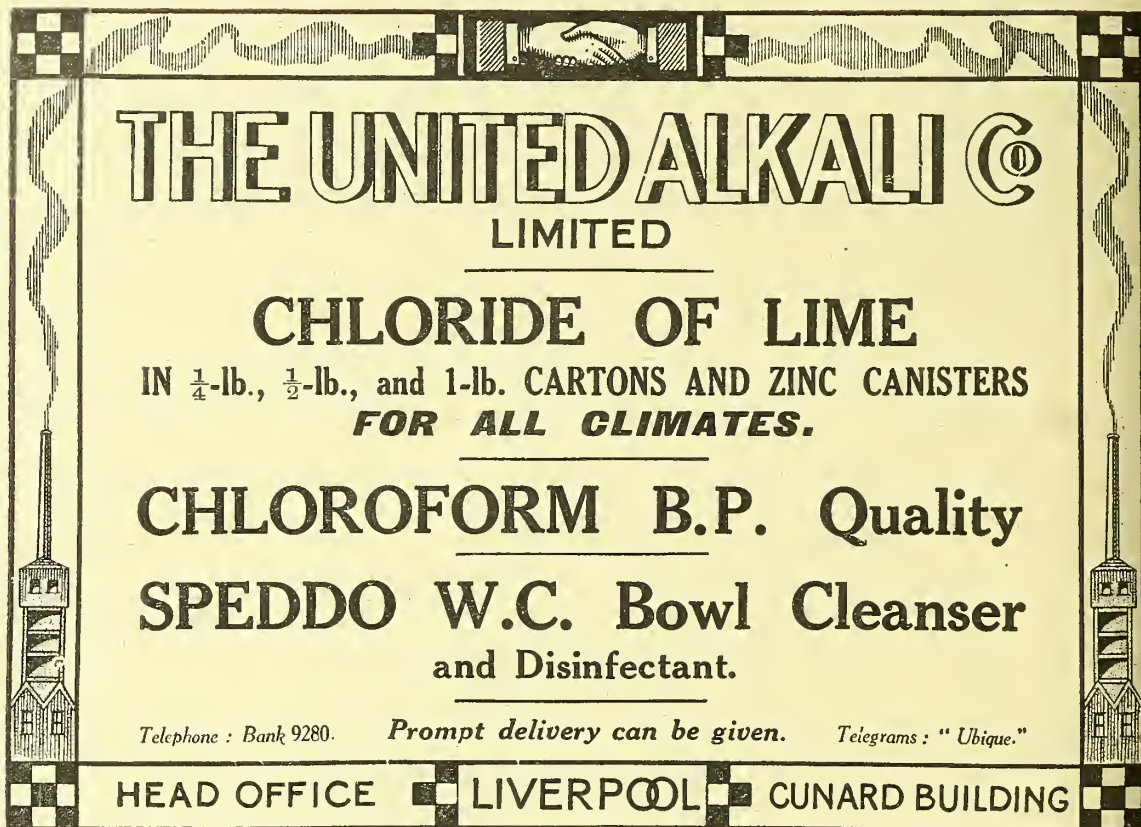
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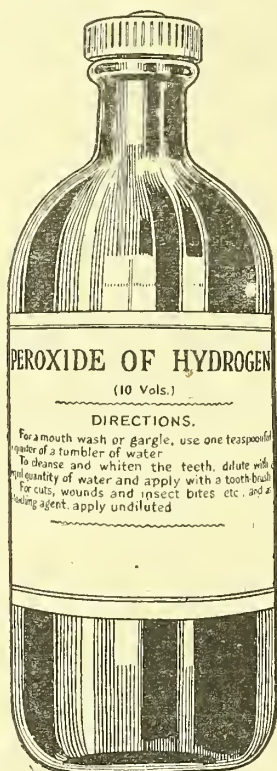
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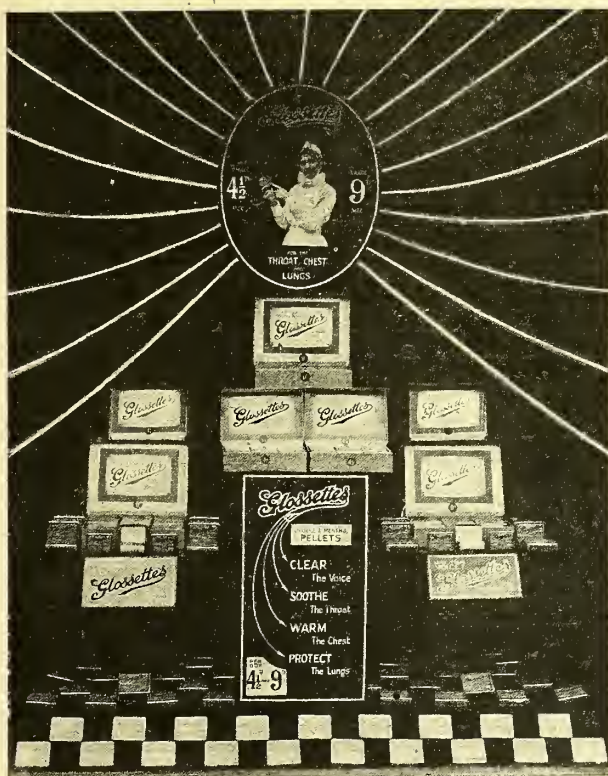
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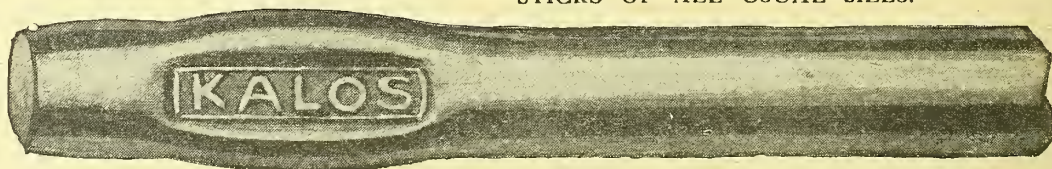
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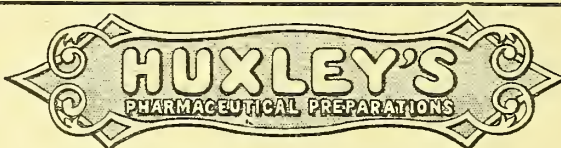
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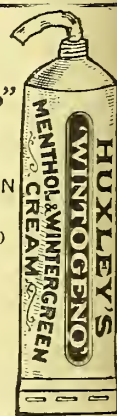
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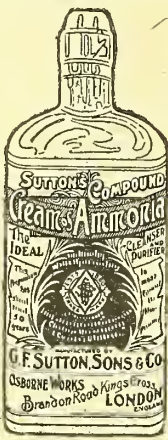
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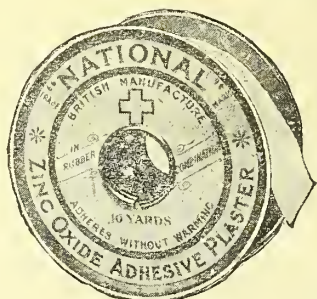
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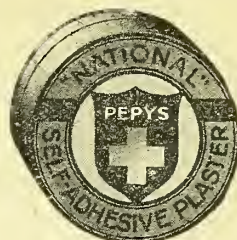
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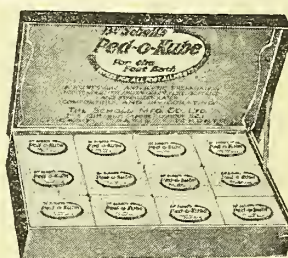
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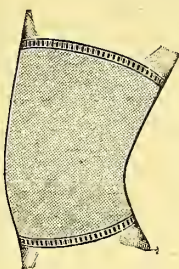
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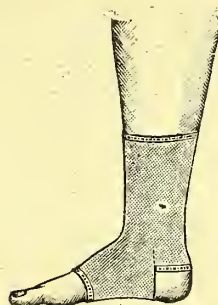
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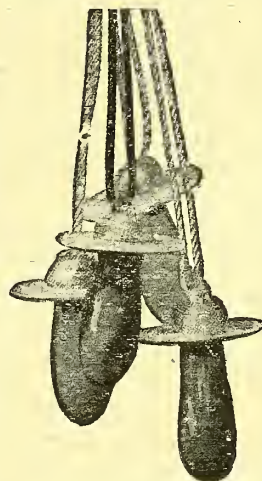
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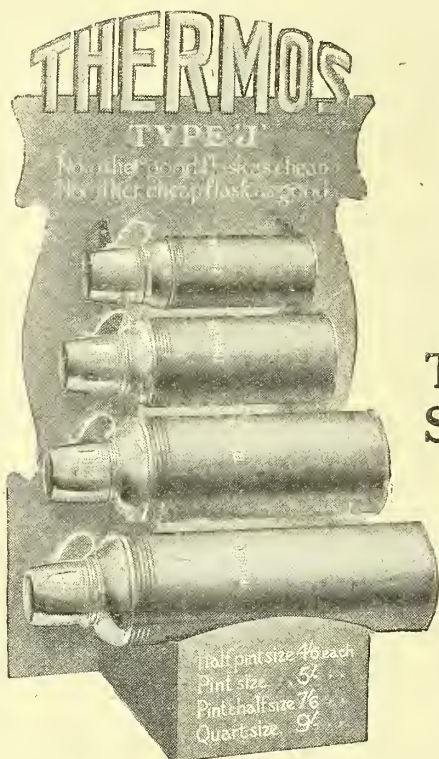
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It is of large size, finished Royal blue with white lettering, and equipped with the four "J" "Thermos" Flasks shown. Let it help to build up more sales for you—we will send it free with your first order for one dozen of each size, or alternatively four dozen "J" type "Thermos" Flasks.

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THEY MEAN INCREASED SALES. The only Paper Handkerchief regularly advertised. Face Price. Minimum Retail.

They are not a Substitute for anything else you sell. There is no Substitute for them.
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Further Reductions in the Prices of the Grey Rubber Bottles

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One quality only—the best. Guaranteed for two years.

For orders of 3 dozen lots we allow 5% special discount.

Heavy make
Grey rubber
Red rubber

Sizes
each
"

PRICES as follows:—								
6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14 in.	
3/-	3/2	3/4	3/6	4/-	4/4	4/6	5/3	
3/8	4/-	4/4	4/8	5/-	5/6	5/9	6/6	

Each bottle in a strong paper bag with directions for use.

Scarlet or grey plush ea.
Velour, assorted colours
(washable) each

Sizes
each

COVERS								
6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14 in.	
1/2	1/4	1/6	1/7	1/8	1/10	2/-	2/3	
1/3	1/5	1/7	1/9	1/10	2/-	2/3	2/6	

MUFF WARMER, red rubber, oval shape, 3½×7 in., each 2/-

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A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for New Price Lists of Druggists' Sundries, Toilet Requisites, Rubber Goods, Cnt Sheet Rubber Appliances, etc.

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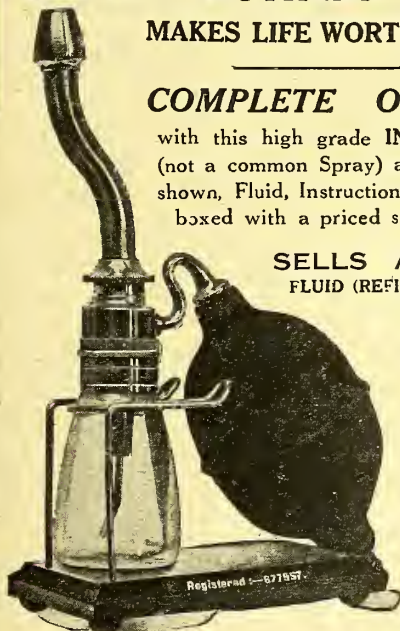
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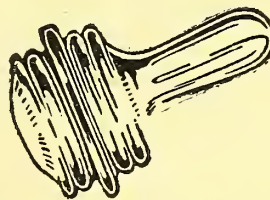
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BY THE

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Infant Soothing Feeders



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These new inventions are **MINIATURE FEEDING BOTTLES** for administering sufficient honey, fruit juice, sugar, etc., to soothe the most fretful baby to sleep.

THEY CANNOT BE USED AS DUMMIES, as they collapse when the contents have been extracted. By removing the rubber cap of the "Dormel" pattern, same can be used as an excellent **NIPPLE SHIELD**.

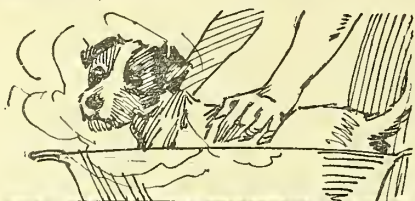
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Phone: Dalston 2219. Telegrams: Acetized, Phone, London.



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SHERLEY'S DOG MEDICINES INSECT POWDER SHAMPOO, and LACTOL (P.A.T.A.)



These preparations command a ready sale, and are by far the largest advertised of any on the market. They are protected at prices that leave an excellent margin of profit for the retailer, and the terms on which they are supplied preclude any possibility of loss.

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Virus for Mice only - single tube, 1/6	..	9/- " "
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Date-expired tubes returned to us postage paid will be exchanged free of charge.

Danzysz Virus in Liquid Form

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Quart Bottles 6/- each	..	4/6 each
Pint " 4/6 "	..	3/9 "

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Discount off Retail Prices 25% Monthly Account, or 33 1/3% cash with order.

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For destroying Blackbeetles, Cockroaches, Crickets, &c.

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In tins 3d.	In boxes of 2 doz. 2/1
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1/-	1 " 7/5
2/6	1 " 18/-

Danzo Beetle Powder will not deteriorate by keeping.

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WASP FLYBAND

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THERE are big possibilities in the sales of Spratt's Dog Remedies. In your district there is a proportion of the 2,500,000 British Dog Owners. Every one is not only a possible but a probable customer if you hold a stock of Spratt's reliable lines for the treatment of doggy ailments. Behind each specific is long veterinary experience and careful dispensing. Each carries confidently Spratt's 60 year old reputation. Each and all will safely carry yours also.

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The same remedy in powder form for convenience where pills found difficult to administer.

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A certain expellant of worms and carefully compounded for safe administration to young dogs.

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FOMO LIQUID SHAMPOO.

A few drops produce a thick foamy lather. Ideal for the general washing of the house dog.

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Carbolized Seed Dressing (Farmers' Friend). Sulphate of Copper and Iron, Formalin, Arsenic, Alum, etc.

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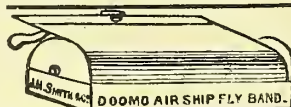
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A wide, long band,
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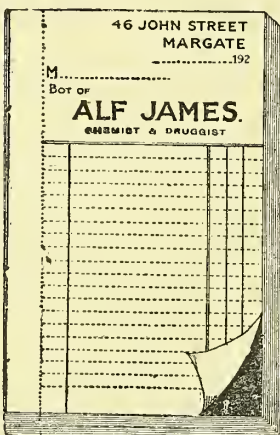
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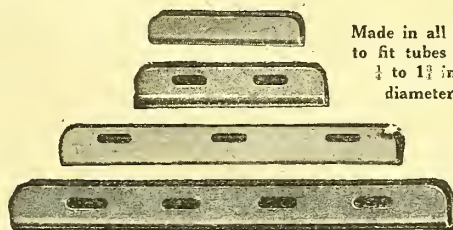


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Output 4 tons per day

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The big demand for "GRIPS" is exceeding all expectations. Get your share of the big business.

5-lb. tins or jars of "GRIPS" First-Aid Pastilles to retail loose by weight at 10d. per quarter cost you.. 11/6
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Special terms for quantities. Twelve 5-lb. tins or jars carriage paid in the United Kingdom.

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'GRIPS'

FIRST AID PASTILLES

Made by LIGHTBOWNS OF ACCRINGTON

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C. 4

SEPTEMBER 22, 1923

This Supplement is inserted in every copy of The Chemist & Druggist.

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Businesses Wanted and for Disposal, Premises to Let, Goods for Sale, and Agencies—6/- for 50 words; every additional 10 words or less, 6d.

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11.—**SOMERSET.**—Drug-Store, offering good opening for extended trading in the hands of a qualified chemist; returns between £16 and £18 weekly; bold corner premises, fitted in mahogany and fully stocked; large house with private entrance; rent £30; price £600; about the value of the stock and fixtures.

12.—**SOUTH COAST.**—Good-class Retail and Dispensing Business; present hands 30 years; returns for the past 3 years average £1,765; present rate, less; average net profit, £788 per ann.; single-fronted shop, well fitted in mahogany, fully stocked; large house and garden; new lease; price £1,750.

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VALUATIONS FOR STOCKTAKING

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6.—LONDON, N.W.—Middle-class Drug Stores for disposal through ill-health; returns average £40 weekly; busy main road; plenty of scope in qualified hands; large corner Pharmacy, modern windows, and fully stocked; price £1,600.

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ADVERTISER wishes to purchase for cash really sound business with turnover of £2,500 or more; town or country, but must be in good thoroughfare. Replies, in strict confidence, to "Major," 19 Church Walk, Ulverston, Lancs.

ADVERTISER requires middle-class Business in healthy locality, preferably with house and garden, returning £1,500-2,000, or less if neglected; cash waiting. Full particulars, in confidence, to 194/4, Office of this Paper.

WANTED, small Cash Business with N.H.I. and Prescriptions, capable of expansion. Full particulars and price to 192/8, Office of this Paper.

WANTED, immediately, in large or small town, Midlands Counties preferred, but not essential; a reliable business with turnover of about £3,000 and plenty of scope for increase; not unopposed; good house and lease essential; medium-sized Family and Dispensing, with room for Photo, and Optics; small business with scope considered. 192/21, Office of this Paper.

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In consequence of the expiry of lease, at 140 High Holborn, removed from 86 Strand, Piccadilly, and various Exhibitions Sale convenience.

A large assembly of well-made
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their Sale Rooms, 5 Little Britain (close to G.P.O.), E.C., on **WEDNESDAY, SEPTEMBER 26, at ONE o'clock.** Catalogues can be had on application to the Auctioneers as above.

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EXCEPTIONAL offer to qualified man (or lady); must be active, good Dispenser, used to N.M.I. work, and Counter; not afraid of work; small capital for half-share. Detailed particulars, photograph, and copy of references to "Advertiser," 6 Rock Avenue, Gillingham, Kent.

QUALIFIED Chemist and Registered Dentist, having more work than can be properly attended to, wishes to enter into arrangements with qualified Dentist on reciprocal terms; references and particulars to be exchanged. Apply 194/1, Office of this Paper.

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AUSTRIA AND CENTRAL EUROPE.—Vienna Wholesale Chemist, 20 years' experience of Austria and Central Europe and connections with all the best Wholesale and Retail Chemists, also Hospitals and Medical men in these countries, wishes to secure the Sole Agency of old-established English houses manufacturing Alkaloids, Fine Chemicals, and Proprietary and Patent Medicines; the agency to be worked on either a commission basis or buying outright; correspondence in English; bank and commercial references given. Send full particulars, 1/8, Office of this Paper.

A GENTLEMAN possessing intimate knowledge of New Zealand Market requirements is returning in October, and would be pleased to negotiate with reliable firm for Agency in this Dominion; Drug-gist Sundries, Packed Goods, Novelties, or similar lines; resident 15 years. Reply C. E. Ling, c/o High Commissioner for New Zealand, 415 Strand, London, W.C.2.

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COMMISSION Agents, with connections Chemists and Hospital, London, Province, Scotland, Wales and Ireland, wanted to push London-made Medical and Surgical Glassware and new improved patent Glass Syringe as side lines at very competitive and attractive prices; towns and districts reserved. Write full particulars, 191/37, Office of this Paper.

GREEN SOAP.—Pure Olive Pulp Italian firm wants Agents. Magrimac, British-Italian League, 74 Grosvenor Street, London, W.

BUSINESSES FOR DISPOSAL.

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BRITISH COLONY.—Healthy climate; old-established firm of Chemists require a capable, qualified man as Managing Director, to invest £5,000, with view to ultimate succession; salary, £1,000 per annum, plus commission, and interest on share capital. Apply, Berdoo and Fish, Valuers, 41 Argyle Square, King's Cross, W.C.1.

CORNWALL.—Excellent double-fronted Corner Shop in main thoroughfare of busy town; handsome mahogany fixtures; present returns about £1,500, and increasing; electric light; Kodak Agency; valuable 14 years' lease, 12 years to run; price, including stock, fittings, lease and goodwill, £1,150. 192/9, Office of this Paper.

ESSEX (11 miles London).—Business for disposal, at present mainly Toilets, Perfumery, and Patents; no opposition; excellent scope for Drugs, N.H.I., and Photographics; lock-up shop; rent 12s. per week, which includes light; takings £8 per week; price £160, which constitutes value of stock and fittings. "Owner," 190/40, Office of this Paper.

HUDDERSFIELD, near (manufacturing town).—Working-class Cash Retail with N.H.I. and Photographics; good opening for Optics; average returns for last three years £2,000 under management; double-fronted shop on main road; electric light; good stock; house attached, 5 rooms and cellars; rent £60; lease granted by vendor; price £250, or near offer. Chas. C. Marsden, Chemists' Valuer, 44 Sholebroke View, Leeds.

LANCASHIRE.—Chemist's, with N.H.I. and Surgical Fitting Business; good stock; spotless Pharmacy; beautifully fitted; good opening for Chemist with knowledge of Fitting Trusses and Belts and wife to fit ladies; business property; good house, bath, electric light; price, business property, £2,000. Address, 65 Rochdale Road, Bury, Lancs.

LEICESTERSHIRE.—Chemist's Branch Business in mining village of 6,000; trade average £15 weekly at good profits; N.H.I. 140 monthly; lock-up shop; very small rent; living accommodation obtainable; goodwill and fittings £75; stock about £100. "Chemist," 11 Market Street, Polesworth.

LIVERPOOL DISTRICT.—Sound Cash Business in densely-populated area; Light Retail and Photo.; house attached; good opening for N.H.I.; average turnover for last three years nearly £1,800; excellent profits; rent £35; rates £19; price £1,400, or near offer. "Y.," 193/36, Office of this Paper.

LONDON, E.—Genuine Retail Business in main thoroughfare; returns last three years, £2,200; £2,300 and £2,000; Kodak Agency; same hands 12 years; lease 21 years; rent £60 and rates; nice house; electric light throughout; price £1,200 cash or near offer; further particulars on receipt of banker's references; owner going abroad. P.C.B. 76/15, Office of this Paper.

MANCHESTER, in industrial area.—Chemist's Business for disposal; established about 100 years; N.H.I. 100 weekly; turnover £1,300, about; price £750. Write 192/6, Office of this Paper.

SOUTH COAST.—In thickly populated suburb of large town; no near opposition; good scope for qualified Chemist; single front; mahogany fixtures; well stocked; 7-roomed house, garden, fruit trees, side entrance; long lease; rent £40 per annum; full details to real buyers; stamp for reply; all at £575, or near offer. 192/2, Office of this Paper.

SOUTH COAST.—Returns £1,000; well-fitted Pharmacy; well stocked; suitable for young man with energy; good reasons for disposal. Apply "W. I.," "Newlands," Regent's Park Road, Shirley, Southampton.

CAPITAL little Business for Sale in populous district in centre of Nottingham, capable of development; suitable for qualified man desiring to start; new stock; Insurance Dispensing; lock-up; rent very low; price to quick purchaser £250, stock and fixtures inclusive. 191/4, Office of this Paper.

OLD-established Business for Sale in a good working-class district in a large city of the West of England; turnover approaching £2,000; Kodak Agency; part-payment considered. Full particulars on application, 194/21, Office of this Paper.

SPLENDID opening for Live Chemist.—For Sale, Photographic Dealer's Business, fitted with up-to-date dark rooms and the latest plant for handling D. and P.; very large turnover; Kodak agency; large, modern double-fronted shop (freehold); half shop would make capital drug stores; finest position on S.E. Coast; or would entertain partnership; only genuine enquiries, please. Particulars, W. H. S., 54 Marine Terrace, Margate.

FOR SALE.

FOR Sale, handsome mahogany Counter with six plate-glass doors, and Dispensing Screen with glass front, and fitted with drawers and shelves; one plain mahogany Counter with drawers; large quantity of Stock Drawers, Show Bottles, Show Cases, Stopped Bottles, etc.; also the Stock as taken from a good medium-sized Chemist's shop. Further particulars from H. A. Hillier, Merchant, Cullompton, Devon.

WRENCH Exhibition Optical Lantern, new condition, triple rack front, large objective, with mixed gas jet, tinters, Beard's regulator, slide carriers, etc., in strong case, price £15. Geo. Jobson, Adin Villas, Horncastle.

1 CWT. Soda Salicyl. B.P. xtls., 2s. 5d. per lb.; 1 cwt. Aspirin, B.P., 3s. per lb.; carriage paid on 7 lbs.; cash with order only. Kemco, Ltd., 36 Trinity Street, Huddersfield.

PREMISES FOR SALE.

WHY Pay Goodwill?—Freehold Property, with living accommodation, for sale in rapidly growing residential part of health resort; no opposition; splendid opening for Pharmacist with moderate capital. 193/19, Office of this Paper.

SITUATIONS OPEN.**[HOME.]****RETAIL.**

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CROYDON District.—Competent Junior required about mid-October for Dispensing and Retail; one with practical knowledge of Photography, Developing, etc., preferred; first-class references essential; photo if possible. Full particulars to "Radix," 194/25, Office of this Paper.

ESSEX Coast.—Wanted immediately, young qualified Assistant holding F.S.M.C. or D.B.O.A. diploma; preference given to one possessing the necessary apparatus to start an Optical department; a liberal commission will be paid; the salary asked should therefore be moderate; permanent progressive post to right man. Full particulars and photo to 195/11, Office of this Paper.

HASTINGS.—Qualified Assistant required in October. Please state age, experience, and salary required. Franklin Baird, Cambridge Gardens, Hastings.

LEEDS.—Qualified Manager required, to commence duties on October 8; also unqualified Assistant for November 1. Apply, giving full particulars and stating salary required, to M. E. Murray, M.P.S., 221 Woodhouse Lane, Leeds.

LONDON, CENTRAL.—Outdoors; no Sunday or Bank Holiday duty. Junior (male) wanted at once, not over 25, with good Retail experience, including Photographic trade. Crowe & Co., 19 Air Street, Regent Street, W.1.

LONDON, N.—Energetic Junior Assistant wanted; must be quick and accurate Dispenser, with knowledge of Photography. Apply, stating references and salary required, to 194/32, Office of this Paper.

LONDON, N.W.—Qualified Junior wanted early in October; good experience in Dispensing obtained. Apply, giving full particulars, Davidson, Ph. Chemist, 342 High Road, Brondesbury, N.W.6.

LONDON, W.—Vacancy for a qualified Assistant; one accustomed to good-class Dispensing preferred. Write or call, Rouse & Co., 12 Wigmore Street.

LONDON, W.—Qualified Assistant for Dispensing Counter; age 22-30. Apply, stating full particulars of previous experience and salary required, to Roberts & Co., 76 New Bond Street, London, W.

MANCHESTER.—Wanted, at once, unqualified Assistant, either gentleman or lady, with experience in dispensing N.H.I. scripts; good Counterman essential. Full particulars, with salary expected, to Griffiths, Chemist, Ashton New Road, Beswick, Manchester.

WEST MIDLANDS.—Registered Chemist to manage (single-handed) small branch and occupy house; rent, rates and lighting free. Applicants must give full particulars of experience, stating age and salary required in first letter. 192/2, Office of this Paper.

ASSISTANT, Minor qualification, for small Company in working-class neighbourhood on South Coast; easy berth; no objection to lady. State age, references and salary required to "H.," 194/14, Office of this Paper.

ASSISTANT, with good experience; unqualified; must be accurate Dispenser and good Salesman; not under 27, easy hours; outdoors. Please give full particulars in first letter 184/1, Office of this Paper.

ASSISTANT, unqualified, male, age 30 to 40, for good-class Counter business; London, S.W. district. State experience, salary, and references. P.C.B. 75/37, Office of this Paper.

ASSISTANT; unqualified; capable, trustworthy, and used to a country business. Apply, stating age, height, and salary required, Bryan, Chemist, Malmesbury, Wilts.

ASSISTANT Wanted.—Qualified Assistant wanted at once for Counter; quick Cash trade (outdoors); no Sunday duty; knowledge Photography essential. Apply, with full particulars age, photo, etc., and salary required, H. G. Williams, 118 The Moor, Sheffield.

CHEMIST-Optician wanted for town business; must be well up in Optical work; progressive post to right man. Apply giving full particulars, references, etc., 193/20, Office of this Paper.

COMPETENT unqualified Assistant required; must be good Dispenser, Counter-hand, and Window-dresser, with Photographic knowledge. Apply, with full particulars, to 31/3, Office of this Paper.

EXPERIENCED, qualified Assistant, tactful Salesman, with knowledge of Photography. W. Shadforth, Ph.C., 49 King William Street, E.C.4.

IMMEDIATE—A smart Assistant, age from 19 to 25, for high-class Photographer, Toilet, Fancy and General Retail business; qualification unnecessary; hours short; no holiday or Sunday duty; good position for the right man. Apply, P. J. Gooch, Camera House, Horsham.

JUNIOR Assistant of gentlemanly appearance and address must be well trained, quick, accurate, and reliable Dispenser, tactful Salesman, with knowledge of Photography. State age, height, experience, salary (outdoors), enclose photo, who disengaged, references. "South," 31/6, Office of this Paper.

JUNIOR Assistant wanted immediately; lady would suit smart and energetic; Dispensing and Counter hand essential; good-class country town business. Full particulars when disengaged, including salary (indoors), first letter. Replies not answered in three days respectfully declined. Howells, Chemist, Pembroke.

LADY Assistant required immediately, with practical experience Counter work, also Dispensing; Hall qualification preferred; hours 8-6. Apply personally to Dowling, 154 Ordnam Road, Enfield Lock.

LADY Assistant, about 30 years of age, wanted immediately for a good-class business; knowledge of Photography, Dispensing, and Toilet articles essential. Please state experience, age, height, salary, when free, and photo if possible, to Guest Chemists, Brentwood, Essex.

LADY Dispenser (Hall) required for branch at Radlett; good shop experience essential. Apply by letter, giving full particulars of training, experience, age, and salary required, Parke's Drug Stores, Ltd., 65 Harwood Street, Chalk Farm, N.W.1.

LADY Dispenser (Hall) required; must have had Counter experience. Please forward usual details of experience, etc. with photograph, to 31/4, Office of this Paper.

MANAGER, young, to open an up-to-date Branch in Chelmsford first week in October; house not yet available; must be smart, energetic, good Salesman. State age, salary expected and full particulars (photo if possible) to T. Bellamy, F. Chemist, Chelmsford.

OPTICIAN, fully qualified preferred, for Optical department in Chemist's business in Midlands; must be thorough capable, with good experience and address, and have good references; a comfortable and permanent berth to the right man. Full particulars to 192/14, Office of this Paper.

PHARMACIST (lady) required about the middle of October for good-class country business within 40 miles of town. J. French, M.P.S., F.I.O., 128 High Street, Sittingbourne.

QUALIFIED Chemist; young man preferred. State age, wages and experience, by letter, to Peters, 16 Branch Road, Armley, Leeds.

QUALIFIED Manager, also unqualified Assistant, wanted for Lancashire town, early to middle October; one with good knowledge Optics, keen Countermen, and good Window-dressers. Apply in first instance, giving age, salary required, and experience, to Charley Dean, Chemist and Optician, 26 Market Street, Bury.

QUALIFIED Manager required immediately. Give particulars of experience, salary required, and when at liberty to 51/2, Office of this Paper.

REGISTERED Chemist for small company; comfortable position; no objection to elderly. Full particulars in first letter, age, references, wage required, when at liberty. Donnelly, 250 Halliwell Road, Bolton.

SALESWOMAN.—Young lady, with 4-8 years' experience, required for Drug, Perfume, Toilet Requisite and Photographic Department. Apply by letter, stating fullest particulars, age, height, and salary required, to live in or out, or personally to Quin & Axtens, 412-440 Brixton Road, London, S.W.9.

SMART unqualified Junior wanted, age about 21; must be good Dispenser. State salary required. J. P. Greenwood, Chemist, 169 Eastbank Street, Southport.

THOMPSON & CAPPER, LTD., require a Junior Assistant for their Birkenhead branch; a knowledge of Photography is essential. Apply, giving full particulars of experience and salary required, with photograph if possible, to Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool.

UNQUALIFIED (male or female); must have had good General Retail experience; country business; easy hours and home comforts. State salary required, also references, to E. J. Caffyn, Pharmacist, Bishops Waltham, Hants.

UNQUALIFIED Assistant (outdoor); energetic, trustworthy; good Salesman and Window-dresser; Thursday half holiday; no Sunday duty. Applications (by letter only), stating age, height, experience, references, salary required, and when disengaged, L. J. Reade, Pharmaceutical Chemist, 17 Lichfield Street, Wolverhampton.

WANTED, part-time, qualified, to assist in small business recently opened; preference given to one who will invest £35 for stock; salary based on commission according to hours; occupier is purchasing freehold, and has outside work; basement available for man with wholesale; living accommodation if required. Apply "K," 32 North Street, Clapham, S.W.4.

WANTED, a Managing Assistant of good appearance, married, age about 30, to live on the premises; experienced Dispenser and a smart Salesman essential, with a knowledge of Photography. Apply, giving full particulars, to J. R. Faulkner & Co., 173 Ladbroke Grove, London, W.10.

WANTED, October 1, qualified Chemist, age 25-30, for working-class district. Apply, giving references, salary required, etc., to Openshaw's Pharmacy, Ltd., 41 Winter Hey Lane, Horwich, Lancs.

WANTED, elderly qualified Chemist to act as Cover; easy hours, slight duties. Apply, stating previous experience and salary required, to Goode, 65 Rochdale Road, Bury.

WITH a view to Branch Management.—Qualified Chemist wanted. If you are a "live" man, with the bump of Salesmanship, knowledge of Photographic trade, and real ability in Window-dressing, write experience, qualifications, and salary expected to 51/999, Office of this Paper.

£2 10S. weekly for smart Juniors just out of apprenticeship, used to quick Retail business. Apply letter first instance. Applications not acknowledged in four days are respectfully declined. The Prosser Roberts Co., Pharmaceutical Chemists, 13 Church Street, Camberwell, S.E.

Returning Photos, &c.

Advertisers in this section who receive portraits and copies of testimonials from applicants, with a stamped addressed envelope for reply, are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

LANCASHIRE house requires qualified Laboratory Manager; must be a good disciplinarian, organiser, well up in the manufacture of Galenicals, and capable of doing the usual standardisations and ordinary analyses. Reply, giving full particulars of experience and salary required, to "Infusion," 51/7, Office of this Paper.

SOUTH OF ENGLAND.—Young man required to assist principal in the work and management of a small Wholesale and Manufacturing business; excellent opportunity for acquiring all-round experience. Apply "Galenicals," 191/1, Office of this Paper.

ACTIVE Representatives, with good connection in London and Provinces, required by large Manufacturers of Chemists' and Dentists' Requisites, Surgical Instruments, Hospital and Nursing Home Requirements, Hygienic and Rubber Goods, etc. Travellers with first-class record and hard workers only need apply; state present commissions held. Write full particulars, etc., to P.C.B. 73/29, Office of this Paper.

FIRST-CLASS live man for Ireland and Scotland to take over established connection, Packed Drugs, Tin Lines, etc.; Wholesale only; one with connection preferred; small retaining fee and commission. Experience, full particulars, to Alex. Parsons, Manufacturing Chemists, Lilley Street, Queen's Park, Manchester.

PROVINCIAL vacancy occurs for an Assistant experienced in manufacture of Preparations for the Toilet. State experience, present employer, and salary required. 51/5, Office of this Paper.

WANTED, Travellers to carry first-class Proprietary article on commission; unique preparation; good remuneration; small article; state district covered. P.C.B. 75/35, Office of this Paper.

[COLONIAL, INDIAN AND FOREIGN.]

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BRITISH COLONY.—Wanted, by an English firm of Chemists, an Assistant with the qualification of the Pharmaceutical Society of Great Britain; salary £350 a year; quarters and servant allowance; two years' engagement; first-class passage out and home; applicants must not be over thirty years of age, unmarried, and of good address; preference given to one with a knowledge of Optical work. Apply 191/11, Office of this Paper.

RIVIERA.—Two Assistants; qualification not absolutely necessary. Particulars, age, height, salary required, enclose photo (to be returned), "B. B. R.," c/o S. Maw, Son & Sons, 7 Aldersgate Street, London, E.C.

SOUTH AFRICA.—Travelling Representative required by leading Wholesale House with existing connection; applicant must have thorough knowledge all branches of the Drug trade, and must be keen salesman, accustomed to interviewing, but previous Colonial experience not essential. 192/5, Office of this Paper.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

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When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

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A.A.A.—QUALIFIED, 26, tall, single, abstainer, first-class experience in Dispensing, Window-dressing, Photography, desires position as Manager or Assistant; disengaged October 1; London or provinces; excellent references. Willcocks, 60 Gladstone Avenue, Manor Park, E.12.

A.A.—ASSISTANT, 31; smart; 16 years' all-round experience; reliable; manage; unqualified; open 26th. "Locum," Day-Lewis, Chemist, Riverhead, Sevenoaks.

A DISPENSER, Hall, Book-keeping, desires post with Doctor, Chemist or Institution; permanent or temporary. "N. N.," Burton House, Burton Street, W.C.

A LADY Dispenser (Hall), experienced, disengaged, desires engagement, Chemist, Doctor or Institution. Miss Thomas, 6 Graham Road, Dalston, E.8.

A LADY Dispenser (Hall), experienced, disengaged, desires engagement, Doctor, Chemist or Institution. Miss Barnett, 50 Manor Park, Lee, S.E.13.

A PHARMACIST, 28, nine years' sound Retail experience, last two years eight months Hospital, desires post Retail; South Wales preferred; Salesmanship; energetic; ability; salary not main object; free shortly. 188/39, Office of this Paper.

A QUALIFIED gentleman, with nearly 30 years' exceptional experience as Buyer and Manager in up-to-date London Store trading, desires similar position; reasonable progressive salary; at liberty end of September. Reply, 193/4, Office of this Paper.

A QUALIFIED man, 34, single, seeks berth as Branch Manager, etc.; experienced; reliable; now at liberty. 194/33, Office of this Paper.

A DVERTISER seeks permanency; 21 years' all-round experience; 12½ years present situation; age 35; height 6 ft. 1 in.; married; live over premises if desired; highest ref. "Fixture," 6 Kerrison Villas, Ealing, W.5.

A LL-ROUND experience (unqualified); good references; Photography, Window-dressing, etc.; capable and reliable; salary moderate. Write 194/18, Office of this Paper.

A N Assistant, 30, unqualified, 15 years' first-class experience in Dispensing, Prescribing, Counter, Window-dressing, and Photography; 2½ years' experience as Manager; used to up-to-date business methods; not afraid of work; excellent references; kindly state salary. 192/1, Office of this Paper.

A S Manager, 30; qualified; Lancashire or Yorkshire; good references and experience; Photographic, etc. 193/30, Office of this Paper.

A S Manager; M.P.S.; 53; married; sober, honest, active; good Salesman; up to date; free October 9. 12 Whitby Road, Fallowfield, Manchester.

A SSISTANT, energetic, unqualified, 28; quick; Dispenser and Counter Salesman, Window-dresser, Photography; excellent references; abstainer; disengaged; Leicester or Birmingham district. "Statim," 84 Evington Road, Leicester.

A SSISTANT, lady (unqualified); 6 years' experience, Dispensing, Counter and Books; excellent testimonials; disengaged November; South Coast preferred. Write "M.," 195/17, Office of this Paper.

A SSISTANT, 23, Part I., reliable, 7½ years' all-round experience, desires position; South Coast preferred; disengaged shortly. "H.," 194/5, Office of this Paper.

A SSISTANT, 15 years' Kensington experience, seeks situation where evening classes could be attended; reliable Dispenser, sharp Counterman. Write, "E.," 173 Ladbroke Grove, London, W.10.

A SSISTANT or Locum, disengaged, desires post immediately; 4½ years' reference; experienced all branches; age 36. "Aspirin," 191/5, Office of this Paper.

A SSISTANT; good-class Retail and Dispensing experience; disengaged October 1. "Chemicus," 5 Benslow Lane, Hitchin, Herts.

A SSISTANT, 27, tall, unqualified, desires permanency; Counter, Dispensing, Photographic, Veterinary, Agricultural experience; studying Optics; salary £3 10s.; excellent references. State full particulars, hours, etc. Douglas, 33 Brock Street, off Beech Lane, Macclesfield.

A SSISTANT, 33, unqualified; good experience in Counter, Dispensing and Photography. E. Searle, 2 Carlisle Avenue, Plymouth.

A SSISTANT; unqualified; 26 years' London and country experience; good references; disengaged shortly. "Chemicus," 48 Balham Park Road, Balham, S.W.

A SSISTANT; unqualified; gentlemanly; 16 years' excellent experience; capable Counterman, Dispenser, Window-dresser; thorough knowledge Photographics; keen worker; accustomed management; disengaged October 2; highest references. "Energy," Woodlands Pharmacy, Ilford.

A SSISTANT; unqualified; aged 30; 12 years' experience; good Dispenser and adaptable Counterman; West of England preferred; married. "Ixion," 193/22, Office of this Paper.

A SSISTANT, unqualified, married, age 30, seeks permanency; local or London; thorough experience in Dispensing, Counter work, and Photography; undeniable references. 27, Lenham Road, Thornton Heath.

A SSISTANT; City and West-End experience; permanent, temporary; disengaged; best references; forte, Dispensing, Manufacture, Stock. "Abbott," 7 Quality Court, Chancery Lane, W.C.

A T Liberty.—Locum or Manager; qualified; smart; wide experience in every branch of a Chemist's business, including Optics; terms reasonable. 192/5, Office of this Paper.

B IRMINGHAM, Leicester or near.—Wanted, permanency; first-class Counterman, Window-dresser, and Dispenser, etc.; able to increase business; take charge if required. Hill, 4 High Street, Nuneaton.

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B RANCH Management or Locum; 50; competent; reliable; well experienced; single; liberty October 3. "Chemist," 35 Cuthbert Street, Bedford.

B RIGTON, or near.—Lady Dispenser. 22, seeks position; six years' good experience Dispensing Counter and Photographic; passed Minor I.; excellent reference. "I. R. S.," 49 Edward Street, Brighton.

B RISTOL or District.—As Branch Manager or qualified Assistant; age 24; country and high-class City experience. 195/2, Office of this Paper.

C HEMIST, Minor; well recommended as to character and ability; temperate; active; permanency only. 193/32, Office of this Paper.

C HEMIST'S son, age 20, passed Cambridge Senior Exam., desires situation as Junior or Improver where evening classes for Part I. are available. Kingston, Pharmacist, Skelton-in-Cleveland, Yorks.

D ISENGAGED end September; 3 years' Hospital experience; knowledge Photography; desires situation in provinces; Chemist or Institution; highest references. C. L. Compston, 240 Turton Road, Bradshaw, Bolton.

D ISENGAGED for London or near; Locum or permanency; Minor man; moderate terms; varied experience. "Pharmacist," 4 Sydney Road, Ealing, W.13.

D ISENGAGED October 4.—Qualified Manager; London only or Locum. Robinson, 3 The Broadway, Worthing.

D ISENGAGED shortly, qualified, 28; London, provincial experience; excellent references. Nethercott, "Garden House Cottage," Upper Drive, Hove, Brighton.

DISPENSER (Hall) seeks post, part-time or Locum; experienced with Doctors. Miss Davies, 241 West Green Road, N.15.

DISPENSERSHIP required; qualified; all-round experience; single; or Managership; age 50. "Statim," 195/27, Office of this Paper.

ELDERLY, part-time or Locum; any light work; cover. Mr. Naylor, Ph.C., 77 Finchbury Park Road, N.4.

EVENING work wanted by gentleman after 5 (noon Saturdays). Neill, 293 New King's Road, S.W.6.

EVENINGS.—Student requires berth whilst attending College; careful and accurate Dispenser; 8 years' experience; excellent references; commence September 24. 194/31, Office of this Paper.

EXPERIENCED Locum, middle-aged; good references; abstainer; not registered; now open. "Newman," 19 Chapel Street, Uxbridge, Middlesex.

EXPERIENCED lady Dispenser and Book-keeper (Hall) desires situation in Leeds or district with Doctor, Pharmacist, or Institution. 191/7, Office of this Paper.

EXPERIENCED, reliable man; unqualified; accurate Dispenser; immediate, or would consider part-time evenings and whole Saturday, or Locum. 195/6, Office of this Paper.

JESSE WILLIAMS, Pharmaceutical Chemist, 17 Headfield Road, Dewshury, Locum or Manager. Disengaged. I take this opportunity of thanking the gentlemen who have engaged and recommended me.

JUNIOR (20), 4 years' all-round experience, requires post; references; town or country. Edwards, 15 Rosaville Road, Fulham.

JUNIOR, age 20, seeks another year's experience; just finishing three years with large Dispensing Chemist; Conter and Photography. Apply J. Ruhenstein, Ty-Isaf Villa, Llanelli.

JUNIOR Assistant (19), height 6 ft., energetic; 3 years in a good-class business; good experience in Dispensing and well up in Photography; disengaged October 22; live in preferred. Cornish, 16 Hill Road, Clevedon, Somerset.

JUNIOR or Improver seeks situation in good-class, all-round establishment; four years' experience in all branches; free middle of October. P. O. Wouldham, Rochester, Kent.

LADY Dispenser, recent Hall Certificate, requires post; Colchester-Ipswich districts preferred; Chemist, Doctor, or Institution. Packard, Ardeleigh, Essex.

LADY Assistant seeks situation, Dispensing and Counter; excellent references. D. Ingle, 209 High Street, Poole, Dorset.

LADY Dispenser, Hall, 7 years' Pharmacy experience, desires position, Hospital or Institution; disengaged. 191/29, Office of this Paper.

LADY, age 20, 4 years' Dispensing and Counter experience, requires post within travelling distance of home; recommended by W. Forster, Seaham Harbour. E. Walton, 42 Westbourne Avenue, Gateshead.

LADY Dispenser (Hall) requires post anywhere with Doctor or Institution; Book-keeping; good experience. "D. E. F.," Tottenhall, Norwich Avenue, Bournemouth.

LADY Dispenser would like post Typing and Book-keeping, either Doctor, Chemist or Wholesale Chemist; anywhere. 193/9, Office of this Paper.

LADY Dispenser, 22 (Hall); good experience (N.H.I., Book-keeping, Typewriting, etc.); locum or permanency. M. C. Ashford, Gillingham, Beccles.

LADY (Hall) requires post as Improver to gain experience Dispensing, etc.; accurate, obliging. Gray, Tiverton Avenue, Wallasey.

LADY Dispenser (Hall) desires post; well experienced in Counter and N.H.I. Dicks, 13 Manse Road, N.16.

LADY Assistant requires post with Chemist; seven years' experience with Counter and Dispensing; country or near Somerset. E. Williams, 1 Oriel Terrace, Weston-super-Mare.

LADY Dispenser, Part I. Minor, desires position London Pharmacy; two years' Retail experience. "C.," 25 Tollington Park, N.4.

LADY Dispenser, Hall, desires post; experience with Doctor and Chemist. 193/39, Office of this Paper.

LADY Assistant, 24; unqualified; 3 years' high-class Counter experience, stock, knowledge photography; Locum or permanent; courteous Saleswoman. 193/27, Office of this Paper.

LOCUM or permanent Manager or Assistant; qualified; good references; disengaged October 2. Smith, 113 Brudenell Road, Tooting, S.W.

M.P.S., young, desires permanency as Manager or Senior; excellent references and experience; Dispensing, Photography, etc.; London or North preferred. "Scotsman," P.C.B. 75/39, Office of this Paper.

M.P.S. (25), single, capable; disengaged November, first week, desires post in good-class business; experienced Dispensing, Counter, and Photographic; London or Wales preferred. 192/12, Office of this Paper.

M.P.S. desires post as Manager; excellent references; good Dispensing and Counter experience. Simpson, 213 Wigan Road, Leigh, Lancs.

MANAGER or otherwise; outdoors; qualified; best all-round experience and references. "Alpha," 181 Manor Street, High Street, Clapham, S.W.

PART-TIME; all-round man; good Counter Salesman, quick and accurate Dispenser; excellent references; S.E. or S.W. preferred. "Chemist," 16 Dundalk Road, S.E.4.

PART-TIME; student; London experience; evenings and Saturday mornings; S.W. district. "L. S.," 17 Amity Grove, Wimbledon.

PHARMACIST; male; middle-aged; permanency, part-time, or Locum; Institution or Retail; moderate salary; references. Box 86, 177 New Cross Road, S.E.14.

QUALIFIED Dispenser-Dresser (male) seeks post with Doctor; can drive car; good references. Apply, 47 Newall Street, Abertillery.

QUALIFIED, mature age and varied experience, including N.H.I.; excellent references; responsible post; London only. 192/4, Office of this Paper.

QUALIFIED (Medallist) requires permanency; six years' Dispensing; all-round experience. Moore, 7 Clifton Road, Weston-super-Mare.

QUALIFIED; Locum or other capacity; experienced in all branches; middle-aged; not afraid of work; near London or South Coast. "Pharmacist," 33 Barmeston Road, Catford, S.E.6.

QUALIFIED; elderly; Hospital or Institution; 11 years' Hospital experience. "Chelsea," 22 Bramerton Street, Chelsea, S.W.3.

QUALIFIED; aged 25; would accept moderate salary for easy hours, as slightly lame; London, W. or N.W. preferred. Cyril H. Rigden, c/o Hubert Rigden, Pharmacist, Harrow.

QUALIFIED man requires post; single; age 23; disengaged; London preferred. S. W. Boulding, 159 Mortimer Street, Herne Bay.

QUALIFIED, 24, experienced Dispensing, Counter, Photography, seeks progressive post; disengaged September 29. 194/16, Office of this Paper.

QUALIFIED Chemist, at liberty in October, desires post; office management, in any capacity; Birmingham or Wolverhampton district desired. Replies, in strict confidence, 193/23, Office of this Paper.

QUALIFIED, middle-aged, disengaged, desires change; would take neglected business, investing certain amount; 18 years' experience. "Remunerate," 88 Campden Crescent, Chadwell Heath, Essex.

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STUDENT, 21, tall, 6 years' all-round experience, quick counter trade, desires Part-time Situation; South London, or Croydon, or near. 195/7, Office of this Paper.

TALL, gentlemanly youth, 18, would like to hear of a vacancy for an Apprentice with a good-class Chemist. "Rex," 66 Vancouver Road, Forest Hill, S.E.

TEMPORARY or part-time; excellent references; many years with Ph. Chemist, W. London. Smith, 32 Lacy Road, Putney.

UNQUALIFIED Assistant; well educated; 20; good all-round experience; quick Salesman, good Window-dresser, and full experience in Photography; height 6 ft.; Northamptonshire or near preferred. "E. N.," 72 Glasgow Street, Northampton.

UNQUALIFIED; disengaged shortly; excellent references and experience; £3 per week; outdoor. "E. T.," 47 Albany Road, Norwich.

UNQUALIFIED; tall; seven years' experience, including Branch Management with qualified Cover; good Counter-man, Salesman, Dispenser, Prescriber. State salary, "Bismuth," c/o Elliott, 2a Spon Street, Coventry.

UNQUALIFIED, male, who has had exceptional Dispensing experience, requires berth in good-class Retail business; age 21; height 5 ft. 6 in.; dark; to commence October 8; well recommended. Smith, c/o Pugh, Chemist Buxton.

WANTED by young lady (M.P.S.), post in London district; West-End Dispensing and good all-round retail experience. Miss Jones, Dispenser, Northern Hospital, Winchmore Hill, N.21.

YOUNG Man, 20, two years at Royal College of Science, seeks post; knowledge of Dispensing and Photography. P.C.B. 76/17, Office of this Paper.

45/-, OUTDOORS.—Unqualified seeks post under principal; Stock or Counter, reliable Dispenser; London or suburbs. 194/2, Office of this Paper.

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